

# The CHEMIST AND DRUGGIST

or RETAILER — WHOLESALER — MANUFACTURER

DECEMBER 6, 1952

## STOCK—DISPLAY—RECOMMEND



Complete with full size  
bottle of Vaporizing Liquid . . . Retail 6/8  
Vaporizing Liquid Refills.      Retail 1/9 & 5/4  
Spare absorbent blocks . . . Retail 1/- each

## Wright's

### COAL TAR INHALER AND VAPORIZER

for quick relief from

**COLDS**

**INFLUENZA**

**BRONCHITIS**

**WHOOPING COUGH**

**CATARRH, ETC.**

Wright's Coal Tar Inhaler and Vaporizer—eminently suitable for the relief of colds, catarrh, and like congestive conditions—should be well and prominently displayed. It offers good sales on good terms.

WRIGHT, LAYMAN & UMNEY LTD., SOUTHWARK, LONDON S.E.1

ESTABLISHED 1890



Importers and Exporters of Pharmaceutical Chemicals.  
All types of Botanical and Crude Drugs for prompt  
delivery from stocks or shipment from origin.

# CHAS. H. WINDSCHUEGL LTD.

I LEADENHALL STREET, LONDON, E.C.3

Cables: Windschuegl, London

# CHEMIST FINDS NEW WAY TO HELP COUNTERACT DROP IN SALE OF LUXURIES

UST now, when more and more chemists are experiencing a fall in demand for certain luxury products, this experience of a chemist in Liverpool is especially interesting.

"For some time" he writes, "I had been wondering how to make up for the drop in demand for luxury goods. Then, one evening at home, last summer, I happened to notice a tin of Sanilav perfumed lavatory cleaner, and the idea flashed through my mind 'how would it go in the shop?'

"Here was a particularly attractive pack; a product closely linked with hygiene, so very suitable for a chemist; and—since it was made by the Ibco people—I knew from experience that the quality was bound to be good.

"Anyway, I decided to try out a dozen tins in the shop. If they did not sell, there could be no harm done, we could quite easily use them up in the home.

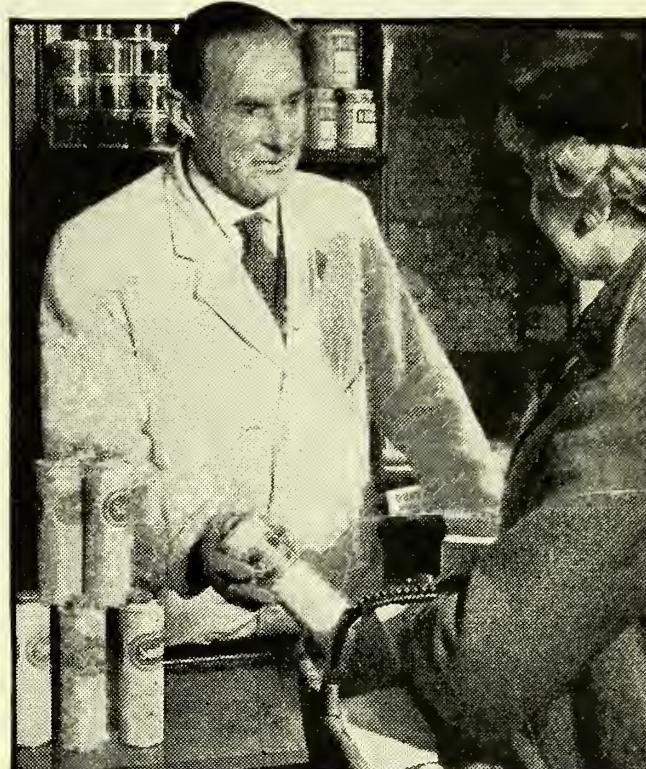
## Surprised by demand

"On delivery, I put a few tins on display on the counter, and to my surprise they started selling right away and in 3 or 4 days I found I had sold out. Since then Sanilav has settled down to a regular sale of between 2 to 3 dozens a month. It was certainly an experiment well worth trying, and I feel fairly convinced that Sanilav would enjoy a worthwhile sale in any chemist's shop."

Sanilav is the most efficient of all



*Sanilav, the new "sprinkle" lavatory cleaner with the fragrant perfume, has a really attractive pack, which makes it ideal for display in a chemist's shop.*



★ *Women of all social classes are increasingly particular about keeping their homes, hygienically fresh and fragrant—hence the rapidly growing demand for Sanilav, the perfumed lavatory cleaner.* ★

lavatory cleaners, because it does four jobs in one. (1) Keeps the lavatory bowl and bend sparkling white right through. (2) Kills dangerous germs with its powerful disinfectant action. (3) Destroys unpleasant smells. (4) Leaves the air beautifully fresh and fragrant. All that's required with Sanilav is to sprinkle overnight and flush next morning.

### IF YOUR WHOLESALER CAN'T SUPPLY YOU, POST THIS COUPON

We would like your representative to call

Name.....

Address.....

Post in unsealed 1½d. stamped envelope to Ibco Products Ltd., River Road, Barking, Essex.

# *Powerful*

## NATIONAL ADVERTISING DRAWS REMINGTON

# *Contour 6*

## CUSTOMERS TO YOUR BRANCH!

Remington is pulling out all the stops and sparing no expense to increase your shaver sales this season. New themes, new ideas, new messages, will bring Remington Contour 6 business to your shop. Powerful advertisements in the leading newspapers and magazines will make men everywhere eager to go to their nearest dealer for demonstration. You can take full advantage of the demand in your locality displaying and demonstrating the Remington Contour 6. Ample sales promotion material is available for this purpose.

Remington Rand Limited, Dealer Wholesale Division (ST.26), 1 New Oxford Street, London, W.C.1



**Men that matter ..**

**HAROLD SPENCER** (Dowryshire Collier) says  
"Coal getting has been my job for the past 27 years. When I come off my shift, I look forward to a smooth, close shave with my Remington Contour 6—a luxury unobtainable in the old days. For speed and convenience there is nothing like the Remington Contour 6."

Men in all walks of life, men that matter, are turning to the smooth comfort of Contour shaving. You get a close, fast shave without blades, without bother. Remember, only a Remington can give you a shave time with a **REMINGTON** Contour 6 ELECTRIC DRY SHAVER

Click and Do Shaving

Write for leaflet to:  
Remington Rand Ltd., Dealer Wholesale Division, Dept. S, 1 New Oxford Street, W.C.1

**Men that**

**DRIVER** of the **R**  
says: "No schedule, I'm on time to for permit, I never earlier on the sky than time— with Contour 6. Like smoothest running of That's why I use it."

The speed and fast cutting Contour 6 makes it the instrument of all time! You shave without blades, fast or bother.

If you have difficulty in obtaining your **REMINGTON** Contour 6, write to: Remington Rand Ltd., Dealer Wholesale Division, 1 New Oxford Street, London, W.C.1

# DISPLAY! DEMONSTRATE!! SELL!!!

# Best Ever!

was the general view of last year's advertising. This year's campaign runs on similar lines, but in addition to the great weight of Press, Transport and Filmlet advertising we are now including regular programmes from

## Radio Luxembourg

### Standard Bonus Parcels

<b>PARCEL 39×25 Capsules @ 2/6 Retail</b>		
E	Total retail value	£4 17 6
	Cost of parcel	£3 0 9
<b>PARCEL 26×5 ml. Drops @ 2/- Retail</b>		
F	Total retail value	£2 12 0
	Cost of parcel	£1 12 5
<b>PARCEL 13×15 ml. Drops @ 5/- Retail</b>		
G	Total retail value	£3 5 0
	Cost of parcel	£2 0 6
<b>PARCEL 13×30 ml. Drops @ 9/- Retail</b>		
J	Total retail value	£5 17 0
	Cost of parcel	£3 12 11
<b>PARCEL 13×100 Capsules @ 8/6 Retail</b>		
L	Total retail value	£5 10 6
	Cost of parcel	£3 8 10
<b>PARCEL 13×15 ml. Infants Emulsion @ 3/6 Retail</b>		
P'	Total retail value	£2 5 6
	Cost of parcel	£1 8 4



P.A.T.A.

There is a full range of bonus parcels, showcards (New Novelties) and dressed window displays to suit your convenience.

## Order Now

Bonus in kind can only be allowed when one or more of the standard parcels E, F, G, J, L and P are ordered. Apart from the bonus parcels, other quantities of Crookes Halibut Oil and Capsules and Halibut Oil Emulsion can always be supplied at normal discount.

# CROOKES HALIBUT OIL

# AMAZING SUCCESS of New Line!

In the matter of a few weeks the Racasan Air Freshener has caught on with the chemist and public. It is attractively packed in its own individual hanging carton. Available in 6 perfumes—Heather, Lavender, Lilac, Narcissus, Pine, Violet. Nationally advertised.

Approved by Good Housekeeping Institute.

## RACASAN AIR FRESHENER AND MOTH REPELLENT

Good discounts. 3 Dozen Assorted in Colourful Counter Display Box. Retail Price 1/3d. each. Ask your wholesaler or write for further details TODAY

**RACASAN LIMITED**

ELLESMORE PORT, CHESHIRE  
Also at London and Liverpool

AVAILABLE  
IN SIX  
PERFUMES



**EXEMPT  
from PURCHASE TAX-**

## PASTILLES OF **GEES' LINCTUS**

B · P · C

PACKED IN ATTRACTIVE  
**2 oz. Printed Containers** PER **10/- DOZ.**  
**1 oz. Printed Packets** PER **5/6 DOZ.**

SPECIAL QUANTITY DISCOUNT available  
**ORDER NOW** for immediate or future supplies

**NOT TAX!**

**RODMILL CHEMICAL CO. LTD. LIVERPOOL 3**

# INDEX TO ADVERTISERS

Advance Industries, Ltd. (Dispel) .....	8
Allen Chlorophyll Co., Ltd., The .....	19
Antigen, Ltd. ....	xxix
Askit, Ltd. ....	xxix
Aspro, Ltd. ....	xxvii
Ayrton, Saunders & Co., Ltd. ....	xvii
Barker, R., & Son, Ltd. ....	xxviii
Bell, John, Hills & Lucas, Ltd. ....	13
Bio-Colloids, Ltd. ....	iv
Biometica, Ltd. ....	26
Boehm, Fredk., & Co., Ltd. ....	iv
Brannan, S., & Sons, Ltd. ....	xviii
Bristow, T. F., & Co., Ltd. ....	xv
British Cod Liver Oil (Hull & Grimsby), Ltd. ....	15
British Drug Houses, Ltd., The ....	9
Brooks Appliance Co., Ltd. ....	xxi
Burroughs Wellcome & Co. ....	29
Calmic, Ltd. ....	27
Carr's Cereal Products, Ltd. ....	xviii
Cellucotton Products, Ltd. (Kleenex) ....	xix
Chemist & Druggist (Electrophysiological Technique) ....	xxviii
Chemist & Druggist (The Chemist's Dictionary of Synonyms) ....	xviii
Chemist & Druggist (Pharmaceutical Formulas, Vol. I) ....	xxii
Chemist & Druggist (Refresher Course for Pharmacists) ....	xxv
Church & Co. (Fittings), Ltd. ....	vi
Ciba Laboratories, Ltd. ....	30
Cooper Laboratory, Ltd. ....	xvii
Cooper, McDougall & Robertson, Ltd. ....	18
Corn Products Co., Ltd. ....	12
Cox, Arthur H., & Co., Ltd. ....	Cover iv
Crookes Laboratories, Ltd. ....	3
Cussons, Sons & Co., Ltd. ....	Cover iii
Cuxson, Gerrard & Co., Ltd. ....	xx
Daniel, Richard, & Son, Ltd. ....	13
Dearborn (1923), Ltd. ....	26
Denclen ....	xx
Disprin ....	5
Dobbs of London ....	xxvi
Duncan, Flockhart & Co., Ltd. ....	14
Edme, Ltd. ....	24
Eucryl, Ltd. ....	20
Fallowfield, Jonathan, Ltd. ....	10
Fatoils, Ltd. ....	iv
Ferris & Co., Ltd. ....	xx
Freeman, William & Co., Ltd. ....	23
Freudentheil, Smith & Co. ....	Leader Page
Gardiner & Co. (The Scotch House), Ltd. ....	vi
Gardner, W., & Sons (Glos.), Ltd. ....	vii
G. B. Equipment Co. ....	viii
Gledhill, G. H., & Sons, Ltd. ....	xvi
Glover, Thomas & Son, Ltd. ....	xxvi
Golden (Coloral), Ltd. ....	xxx
Halewood Chemicals, Ltd. ....	26
Hardy, M. W., & Co., Ltd. ....	xi
Harley, T., Ltd. ....	xxvi
Harris, Hart & Co., Ltd. ....	iii

(continued overleaf)

**If** aspirin were freely soluble and bland—

**If** calcium aspirin were stable and palatable—

**That** would be 'Disprin'

'Disprin' provides pure calcium aspirin; yet is in stable, palatable tablet form. It thus overcomes the disadvantages of aspirin, low solubility and acidity, and the defect of calcium aspirin, a liability to decomposition during manufacture and storage. And it thus combines the analgesic, sedative and anti-rheumatic uses of aspirin with the ready solubility and blandness of pure calcium aspirin.

**DISPRIN** REGD. *Provides stable, soluble, palatable calcium aspirin*

In all conditions which call for up-to-date aspirin therapy, Disprin may be advised and recommended.

50 tablet bottle 3/4; 26 tablet bottle 2/-; flat pocket folders 8 tablets 9d.  
(all including Purchase Tax).

## INDEX (cont.)

Howard, Lloyd & Co., Ltd.	xxiii
Ibco Products, Ltd.	1
Ilex Supply Co., Ltd.	xxix
Imperial Chemical (Pharmaceuticals), Ltd.	21
Jackson, George, & Sons, Ltd.	xxvi
Jeffreys, Miller & Co., Ltd.	xxvi
Jeyes Laboratories, Ltd.	10
Johnson & Johnson (Gt. Britain), Ltd.	7
Kearsley, C. & G., Ltd.	xxvi
Kellys, John (London), Ltd.	ii
Kemball, Bishop & Co., Ltd.	xii
Macdonald & Son, Ltd.	16
Matthews, S., & Co., Ltd.	xxi
Medlock Mfg. Co., Ltd.	xxvi
Mitchell, L. A., Ltd.	xvi
Mysore, Trade Agent	14
National Glass Works (York), Ltd.	xiv
Niblett, C. P.	xxiv
Nu-Swift, Ltd.	xxviii
Odedent Co., The	Leader Page
Olley, C., & Sons, Ltd.	xvi
Orridge & Co.	Col. Supp.
Panta (Instruments), Ltd.	24
Pentecon, Ltd.	vi
Pharmaceutical Laboratories Geigy, Ltd.	25
Pharmac, Ltd.	xxviii
Pierson, Morrell & Co., Ltd.	iii

Potter & Clarke, Ltd.	.....
Racasan, Ltd.	.....
Radiol Chemicals, Ltd.	.....
Ransom, Wm., & Son, Ltd.	.....
Remington Rand, Ltd.	.....
Rentokil, Ltd.	.....
Riddell Products, Ltd.	.....
Riley, J., & Sons, Ltd.	.....
Rodmill Chemical Co., Ltd.	.....
Sandoz Products, Ltd.	.....
Sanford Mfg. Co., Ltd.	.....
Sayers, Silcox, Cuzner & Co., Ltd.	.....
Scurr, C. A.	Col. Sup
Shadeine Co.	.....
Skuse & Co. Ltd.	.....
Sorex (London), Ltd.	.....
Steradent	.....
Stewart, Goodall & Dunlop, Ltd.	.....
Stretch, Wilfred, & Co., Ltd.	.....
Tell Products, Ltd.	Col. Sup
Thornton & Ross, Ltd.	.....
Townsend, J., & Sons, Ltd.	.....
Tunnel Glucose Refineries, Ltd.	.....
Tye, John, & Son, Ltd.	.....
Wagner, R. V., Ltd.	.....
Wallis Laboratory, Ltd., The	.....
Wander, A., Ltd.	.....
Ward, Blenkinsop & Co., Ltd.	.....
Warrington Chemical & Drug Co., Ltd., The	.....
Wesley, Harold, Ltd.	.....
Whiffen & Sons, Ltd.	.....
Wilcox, Jozeau & Co., Ltd.	.....
Wilkinson, S. W., & Co., Ltd.	.....
Windschuegl, Chas. H., Ltd.	Cover
Wright, Layman & Umney, Ltd.	Front Cov

*Your name* IS YOUR MOST VALUABLE PROPERTY

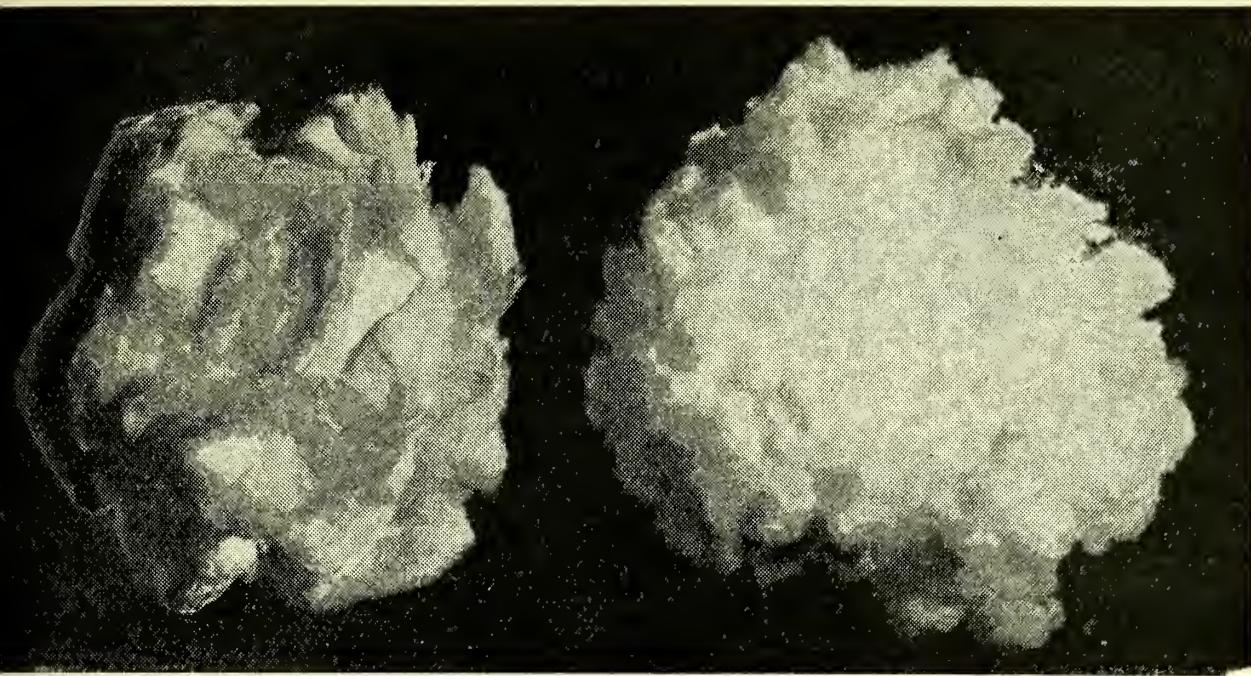
YOUR NAME

KEEP IT IN THE PUBLIC EYE!

Build up goodwill for YOUR OWN name and express your individuality by showing a uniform range of packed lines bearing your own name.

Write for details of our exclusive label service

THORNTON & ROSS  
LIMITED  
LINTHWAITE LABORATORIES  
HUDDERSFIELD ENGLAND



## Which is softer?

On the left, ordinary soluble sanitary towel filling. On the right the exclusive Modess 'fluffed' filling. You can see at a glance Modess is softer, that it will not chafe, and gives the greatest possible degree of comfort in use. Add to this the other special Modess features—rounded streamlined ends, moisture-repellant backing marked by the blue thread and *exceptional degree of absorbency*,

and you will understand why Modess towels are preferred for comfort and efficiency in almost every country in the world. Modess Sanitary Towels, made by the largest surgical dressing manufacturers in the world, are uniformly excellent. Whether soluble or cotton wool, they conform to the highest surgical standard of hygiene. In recommending them to your customers you are sure of building goodwill.

## Modess

The best Sanitary Towel at any price

*softer · safer · streamlined*

SOLUBLE OR COTTON WOOL SANITARY TOWELS MADE BY  
*Johnson & Johnson (Gt. Britain) Ltd.*

# Retail Buyer Says

**"I like DISPEL in every way.  
We use it at home, and find  
it does all that is claimed".**

(Mr. T., Retail Buyer, Newcastle-on-Tyne).



#### REFILLS

All housewives  
appreciate

the 1/9 double-size refill.  
It's as good as  
two new bottles —  
at 10½d. each!

**PROOF of a product's worth** comes from personal test. We have had enthusiastic reports from buyers all over the country.

**RESULTS of a survey** recently completed show that 89% of the housewives interviewed considered DISPEL as good as or better than other deodorisers they had previously used, and 88% said its low cost (2/-) will enable them to use DISPEL in more than one room.

**The 'Quick-Wick' is an outstanding** advantage, declared 98% of these housewives, and 91% said . . . that if they could not buy DISPEL at their usual shop they would go elsewhere.

**kill that smell with**

Advance Industries Ltd., 87 Regent St., London, W.1. (REGent 3955)  
Associated with the British Permanent Starch Co. Ltd.

# DISPEL

# 'RADIO-MALT'

for  
radiant health

An English winter. Fun for the children; but always a source of worry to their parents. A tumble in the snow may lead all too soon to a cold in the head.

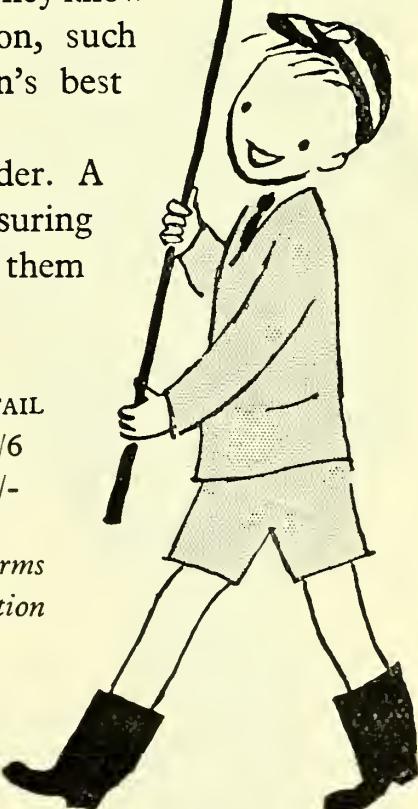
Wise parents take precautions. They know an established vitamin preparation, such as Radio-Malt, is their children's best safeguard.

But parents need a reminder. A gaily coloured cut-out measuring 10" x 9" is available to remind them of Radio-Malt.

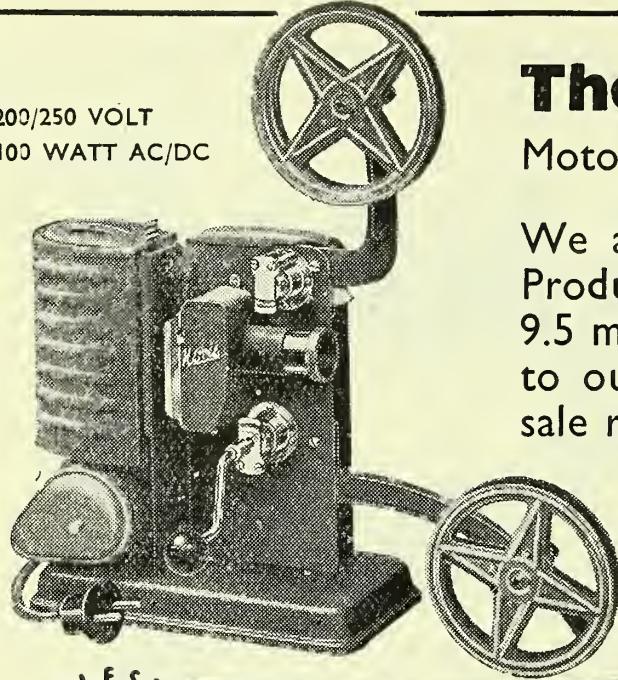
Prices: 1 lb.  
,, 2 lb.

	TRADE	RETAIL
	2/5½	3/6
	4/2	6/-

*Quantity terms  
on application*



200/250 VOLT  
100 WATT AC/DC



## The NORIS 9.5 mm. Motor Driven PROJECTOR

We are proud to add Luminos Products, including their NORIS 9.5 mm. Motor Driven Projector, to our already extensive wholesale range.

Retail Price £18 18 0

inclusive of one lamp

Descriptive leaflet on application



# JONATHAN FALLOWFIELD LTD.

74 NEWMAN ST. LONDON W.I. MUSEUM 7401-2-3

This attractive  
Sales Aid sent on request



## SULEO D.D.T. PLUS PYRETHRINS HAIR EMULSION

*the modern remedy for head pests*

WIDELY APPROVED BY THE MEDICAL & NURSING PROFESSIONS

Formulated with D.D.T. Plus pyrethrins one application of SULEO will clear the most heavily infested head in a matter of minutes and will give complete protection from re-infestation for at least 14 days.

In 3 oz. bottles — 13/9 per dozen, retail  
2/2 including Pur. Tax

In 20 oz. bottles — 61/6 per dozen, retail  
9/7 including Pur. Tax



P.A.T.A.

Available from all C.F. wholesalers or direct from manufacturers

Pharmacists margin of profit may be further increased by including SULEO in composite orders for JEYES' PRODUCTS on quantity terms

## JEYES' LABORATORIES LTD

Millbrook, Chigwell, Essex

(Proprietors: Jeyses' Sanitary Compounds Co. Ltd.)

# Why you should sell

**WANDER**  
BRAND

## Malt & Cod Liver Oil

**B**ECAUSE of its unsurpassed quality and its ready acceptance by the public, Wander Brand Malt Extract and Cod Liver Oil is a product which the pharmacist can recommend with full confidence, and in his own best interests.

Wander Brand Malt Extract and Cod Liver Oil is outstanding in its field and its pharmaceutical excellence is recognized by physicians. The Cod Liver Oil used is the best obtainable and the Malt Extract is specially prepared by A. Wander Ltd., who are leading authorities on its manufacture. These two ingredients are combined in the proportions recognized by the medical profession.

With its attractive appearance and toffee-like flavour, Wander Brand Malt Extract and Cod Liver Oil is thoroughly enjoyed by children and adults.

On the **PATA**

	1 doz.	3 doz.	6 doz.	12 doz.
Trade Prices: 1-lb. jars ...	22/9	22/6	22/3	22/-
2-lb. jars ...	43/-	42/6	42/-	41/6

*Exempt from Purchase Tax.*

3, 6 or 12 doz.: 1 lb. jars or the equivalent.

Retail Prices: 1 lb. jars 2/6; 2 lb. jars 4/9.

**NOTE. — Also supplied, if required, with attractive labels bearing your own name.**

Attractive showcards available.

*For further details write to: A. WANDER LTD.,*  
42 Upper Grosvenor Street, Grosvenor Square, London, W.1. T.20



*glucose  
important announcement*



# DEXTROSOL

BRAND

tablets are now  
distributed nationally !

### Important because ...

'Dextrosol' Tablets are made of dextrose, which is glucose in its purest form. Deliciously flavoured, they are a source of immediately available energy — "vest-pocket" energy.

### Important because ...

The popularity and value of 'Dextrosol' Tablets have been proved. In test areas over the past few months, they have shown themselves to be a really quick-selling line. Packed in attractive counter display containers carrying the instant energy story, they really do sell.

**SPECIAL NOTE**—'Dextrosol' Tablets were accepted by the British Olympic Association for use by the 1952 Olympic Team.

### Important because ...

On each 10½d. packet of 'Dextrosol' Tablets you make 33½% profit! Remember — it has been proved that 'Dextrosol' Tablets, prominently displayed, show a steady, speedy turnover. Everybody feels they could do with more energy — they read the 'Dextrosol' story — and there's another sale!

*Introduce Dextrosol Tablets NOW!-*

ORDER THROUGH YOUR USUAL CHANNELS

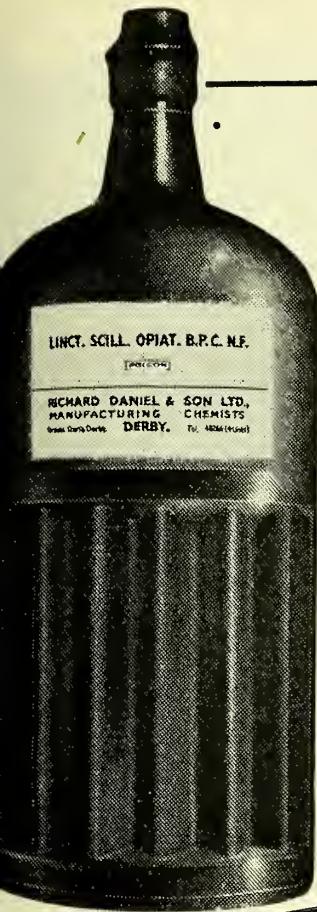
**DEXTROSOL** BRAND  
glucose products

Made by the Pharmaceutical Division of Corn Products Company Limited

A member of the Brown & Polson Group

WELLINGTON HOUSE, 125/130 STRAND, LONDON, W.C.2





# GALENICALS for WINTER DISPENSING

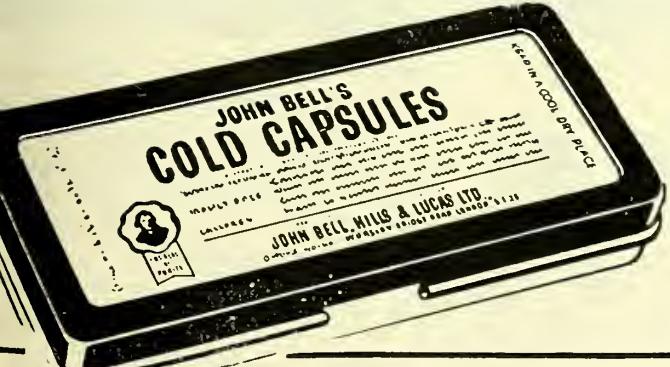
*Manufactured under strict  
supervision from finest  
quality ingredients.*

**RICHARD DANIEL & SON LTD**  
MANUFACTURING CHEMISTS

MANSFIELD ROAD **DERBY** Tel: 48266 (4 lines)  
And at GROSVENOR ST., ASHTON-U-LYNE. Tel: 2816 (3 lines)

*Never without  
JOHN BELL'S  
COLD CAPSULES*

Hundreds of chemists and thousands of customers are never without John Bell's Cold Capsules. There's steady business in this ever popular preventive and treatment in the common cold, business that's on the way now — order supplies today.



## BONUS DISPLAY TERMS!

13 for every dozen on orders of 3 dozen and over  
attractive display stands supplied.  
Retail price 1/11 per tin; Trade 11/6 per doz.

**JOHN BELL, HILLS &  
LUCAS LTD**

Oxford Works, Worsley Bridge Road, London, S.E.26



QUALITY AND SERVICE

*(flock)*  
**GALENICALS TABLETS  
 CAPSULES INJECTIONS  
 PENICILLIN PREPARATIONS**

**DUNCAN, FLOCKHART & CO., LTD.**  
 EDINBURGH & LONDON



**MYSORE**  
*Sandalwood Oil*

Mysore Government Sandalwood Oil consignment being loaded at Bombay Port for transhipment to London stock of the Trade Agent per Air India International planes maintaining a 24 hour service between India and U.K.

For further information apply to: **TRADE AGENT FOR MYSORE**  
 9 Clifford Street, London, W.1

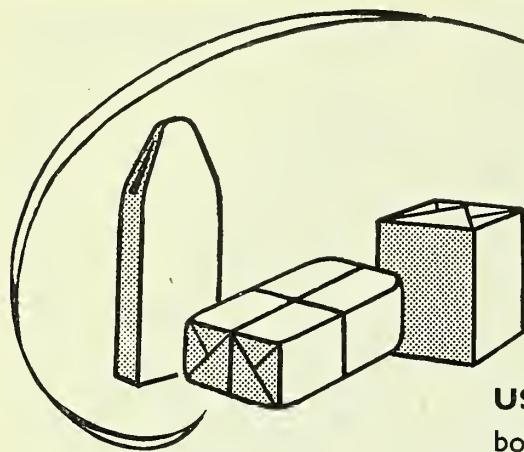


# **Make your window do the spade-work !**

The sturdy youngsters on the SevenSeas showcards 'sell' your customers *outside* your shop! Their health and happiness make a strong appeal. Feature them in your window with a colourful display of SevenSeas products and watch your sales rise. For a SevenSeas display serves you — it brings more and more customers into your shop! Write for the attractive 'Health and Vitality' and 'Mother and Baby' showcards — without delay!

**SevenSeas** PURE COD LIVER OIL

British Cod Liver Oils (Hull & Grimsby) Limited, St. Andrew's Dock, Hull.



*Wrap them ALL in*

**Certor**

## WRAPPING PAPERS

**USE CERTOR WRAPPINGS** for your bottles, boxes, and anything else you wrap. There is a paper for every purpose at a reasonable price.

**OUR DISPENSING PARCHMENT** for bottle-wrapping is best-quality tax-free paper at a keen price. Packed in cartons which hold the paper while in use. Sheets extracted by means of thumb-hole at the top.

**COLOURED SULPHITE** is also packed in cartons (10" x 10" size only). This paper available in larger size, 20" x 30". Colours are green, grey, mauve, and claret.

**SWEDISH PURE KRAFT** in two sizes, 20" x 30" and 15" x 20". Also in 15" counter rolls. Counter rolls of green and lilac sulphite of the same width.

**TISSUES** in light blue, dark blue, light green, dark green, mauve and white.

**BEST WHITE DISPENSING** in size 17 $\frac{1}{2}$ " x 22 $\frac{1}{2}$ ".

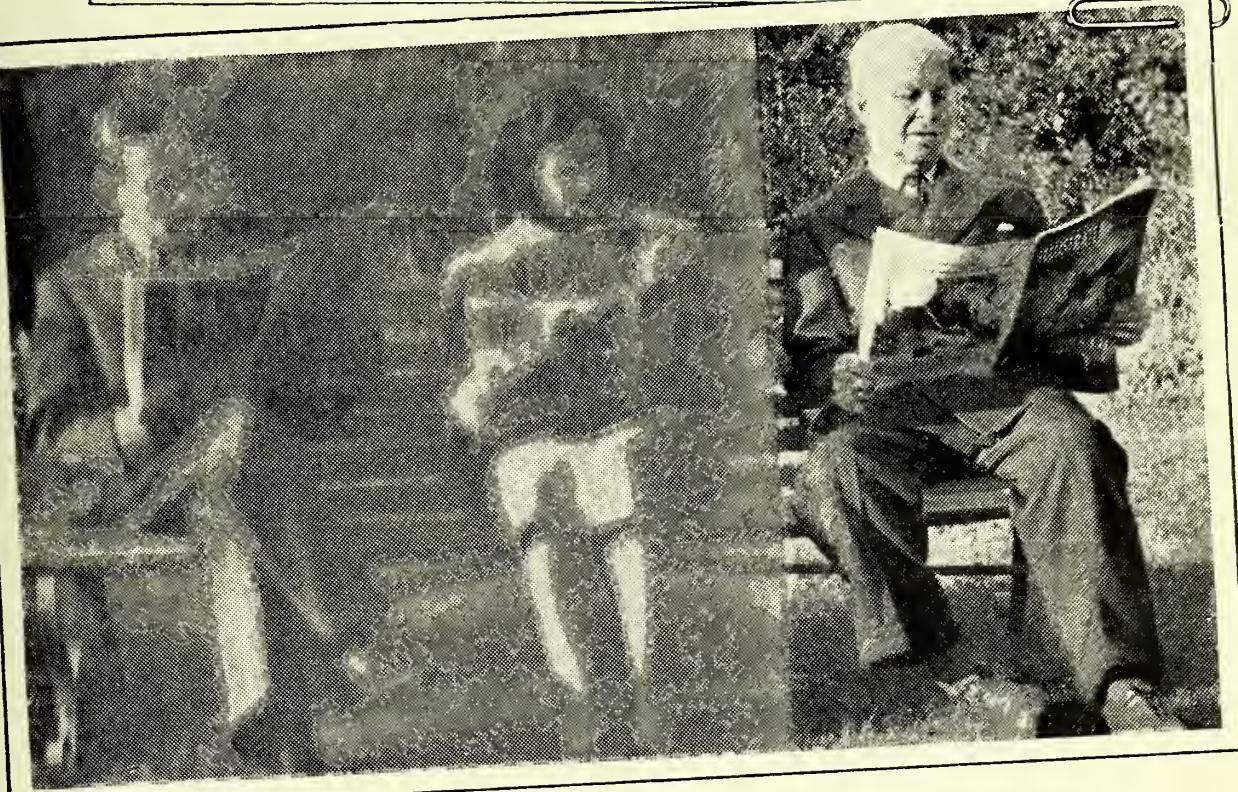
**ROLLMASTER COUNTER REELHOLDER** with three alternative fixing positions. Takes rolls up to 15" wide.

### CHRISTMAS WRAPPINGS—ORDER NOW!

Gay, seasonal wrapping papers still available for the Christmas trade. Send in your order now: 48/- per ream; 2/7 per quire.

Are you getting discounts on your dispensing sundries? Wrapping papers and other lines shown on our Dispensing Sundries Card are subject to discounts. Write for details.

*Needs to be  
developed fully!*



**One-third of the market already uses a denture cleaner . . . two-thirds awaits development.**

1 in 3 of the twenty million denture wearers already use a specific denture cleaner. But the other two-thirds still use makeshifts. Even kitchen scourers!

Research shows that when customers try Steradent they keep on buying it. Steradent's lively, new biggest-ever advertising is aimed at those remaining two-thirds!

So just show your customers that you stock Steradent and, if we may strain the metaphor beyond endurance! . . .

*Draw in the other two  
with Steradent!*

# Good news of **COOPER'S** Aerosol & Flyspray

## for **1953**

*Full details of :*

- ★ A GENEROUS BONUS OFFER
- ★ EXTENSIVE ADVERTISING CAMPAIGN
- ★ ATTRACTIVE NEW DISPLAY UNIT

will be announced next month  
Meanwhile—

*Christmas Greetings and Good  
Wishes to all our friends in the Trade*



COOPER, McDougall & Robertson, LTD., Berkhamsted, Herts. Est'd 1843

# *Allen Chlorophylls*

**HIGHLY CONCENTRATED**  
**(70% to 100% Chlorophyllin content)**

Placing our research facilities and long experience of Chlorophyll manufacture freely at users' disposal, we welcome inquiries as to the best grade of Chlorophyll for any particular application.

*For* TABLETS • DENTIFRICES • MOUTH WASHES  
DEODORANTS • BREATH SWEETENERS • DRESSINGS  
SOAP COLOURING • FOOD COLOURING • FOOD  
& CONFECTIONERY COLOURING etc. etc.

WATER-SOLUBLE CHLOROPHYLLS  
OIL-SOLUBLE CHLOROPHYLLS  
MEDICINAL CHLOROPHYLLS

Send us your enquiries

**THE ALLEN CHLOROPHYLL COMPANY LTD.**  
WHARF ROAD, LONDON, N.I

Telephone:  
CLERkenwell 1000

Telegrams:  
Alclor, Nordo, London

Cables:  
Alclor, London

*Now...*

# CHLOROPHYLL EUCRYL

**SENSATIONAL VALUE! in  
CHLOROPHYLL**

## DENTIFRICE

in addition to the famous

**WHITE EUCRYL — Britain's  
largest selling toothpowder**

Supported by an  
**EXTENSIVE NATIONAL  
ADVERTISING CAMPAIGN**

Now you can supply the current demand for chlorophyll dentifrice with EUCRYL!

Tests prove that with powder — the

most efficient method of cleaning teeth — chlorophyll blends better . . . keeps its effective properties longer.

It's finer . . . costs less . . . lasts longer. That's why it will be so much in demand.

**MAKE SURE YOU'RE READY**

**ORDER NOW ON BONUS TERMS**

EUCRYL LTD · SHIRLEY · SOUTHAMPTON

and a

**NEW  
EUCRYL**

DENTAL PLATE  
FIXATIVE

also with

**CHLOROPHYLL**

for firm dentures  
and fresh mouth

**NOW ALSO READY — the new display casket for EUCRYL WHITE Powder**

**NEW!**





## -the safest way

The safest and most effective way of keeping pets free from fleas, lice, and other troublesome skin parasites is by regular dressing with 'Lorexane' Dusting Powder. Pleasant and convenient to use, the Powder contains gamma BHC, which is now recognised by veterinary authorities as the most potent and persistent of all the modern chemical insecticides, yet one which is completely safe for the treated animal. In cats, dogs, poultry, etc., a single dressing rapidly kills all the common insect pests, and effectively prevents reinfestation for some two weeks.

# 'LOREXANE' DUSTING POWDER

Trade Mark

*Contains gamma BHC, the SAFE insecticide*

*Available in two sizes :*

100 gm. Squeeze Drums: Retail price 2/-, Trade Price 16/- doz.

500 gm. Containers: Retail price 7'6, Trade Price 60/- doz.

**IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.**

*A subsidiary company of Imperial Chemical Industries Ltd. Wilmslow, Manchester*



Ph.300

Most chemists will want to find room for this gay, novel display unit! The "boxer" (a pastilles-and-springwire figure) sways and dances at the slightest vibration or touch. The whole colourful boxing-ring scene aptly dramatises a new sales-campaign slogan for

## POTTER'S CATARRH PASTILLES

This "Fighting Formula" slogan puts a powerful punch into big-space National press advertising now appearing for Potter's Catarrh Pastilles. Point-of-sale display of this eye-catcher should prove an easy sales winner. 1 doz. tins of Potter's Catarrh Pastilles can be put in a special holder attached to the back of this unit.

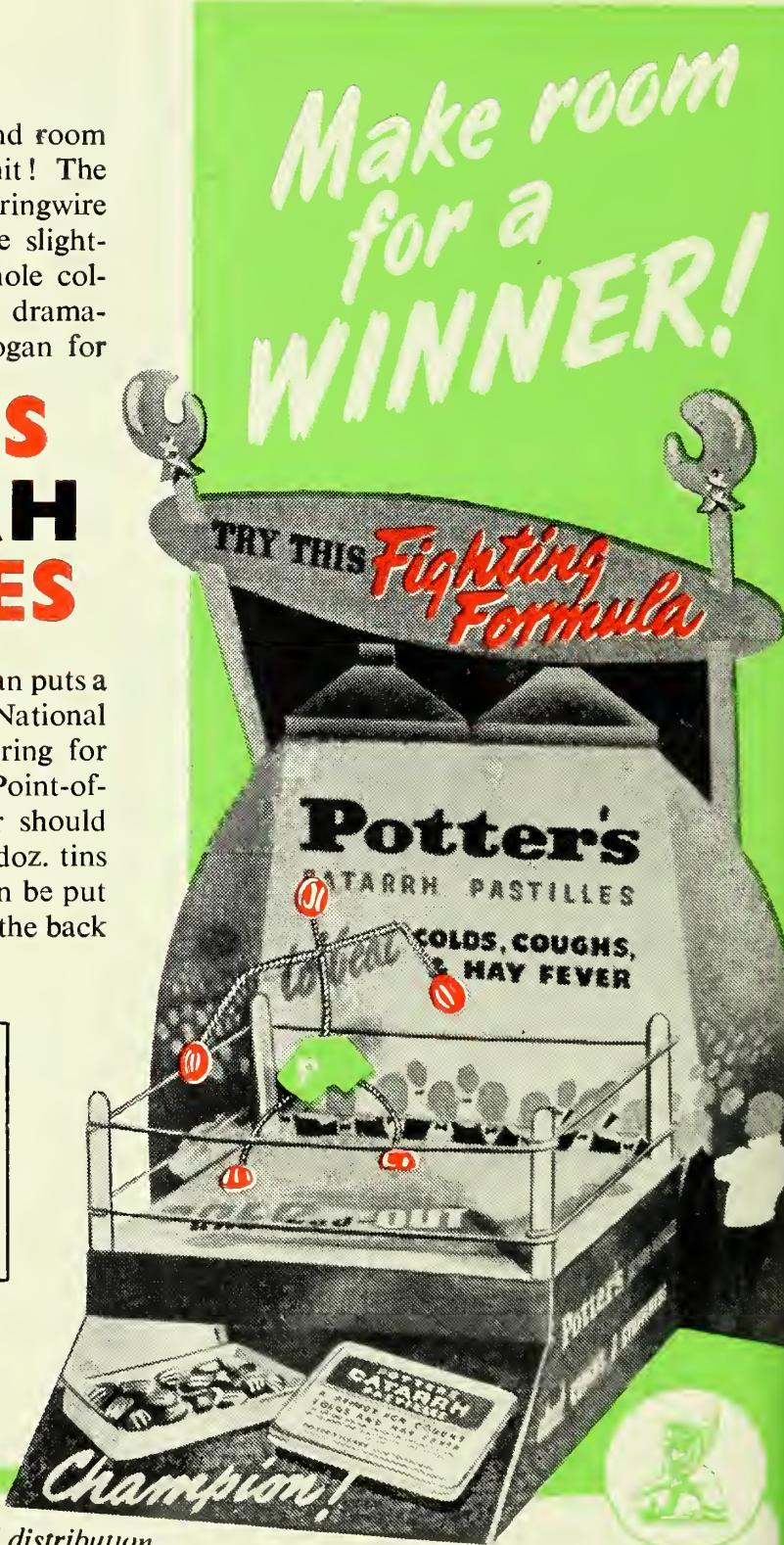
**ALSO READY:** Striking display box (also with "boxer" illustration) holding 1 doz. tins.

Retail Price	Trade Price
1/9 a tin.	11/- a doz.

**ORDERS THROUGH  
WHOLESALERS ONLY**

*N.B.—There is no general distribution of this costly display. If you are interested in having one for your shop, please apply direct to*

**POTTER & CLARKE LTD**  
RIVER ROAD · BARKING · ESSEX · Telephone: RIppleway 3041



**NOTE NEW  
ADDRESS**

# Christmas Comfort



It's a comforting thought, as we approach the year end, to realise how many friendships we've made and maintained during the last twelve months. To all of you we send a warm greeting for the coming Christmas. And whilst we don't wish to count our chickens before they're hatched (or our turkeys before they are eaten) we feel confident that 1953 is going to be a real "SUBA" year for us all.



**WILLIAM FREEMAN**  
& COMPANY LIMITED

**SUBA-SEAL WORKS, PEEL STREET, BARNSLEY, YORKS**  
TELEPHONE: BARNSLEY 4081

TELEGRAMS: SUBASEAL, BARNSLEY



# EDME "Autumn Sun"

EXTRACT OF MALT  
WITH COD LIVER OIL (B.P.)  
WITH FLAVOURING

**THE CHOICE OF THE FIRST CLASS CHEMIST**

EDME LIMITED, IMPERIAL HOUSE, 84-86, REGENT STREET, LONDON, W.1.  
Phone: Regent 5563-4. Grams: Edme, Piccy, London. Works: Mistley, Essex.

## NYLON ELASTIC STOCKINGS SEAMLESS

- ★ CLEAN MESH FOR AIR INTAKE
- ★ LONG, PLEASANT WEAR
- ★ SHEER AND FULLY FASHIONED

## PANTA INSTRUMENTS

LIMITED

26 SAVAGE GARDENS, LONDON, E.C.3  
PHONE: ROYAL 2425  
CABLES: "PANTATRADE" LONDON

*Customer : Can you give me anything for my bunion?*

*Chemist : Have you tried*

## RADIAN-A?

This year has seen national advertising of Radian-A for bunions as well as the campaign for Radian-B for stiffness, aches and pains. But this is only part of the reason for the very steep increase in the sales of Radian-A. A more important reason is that it does give such swift and lasting relief from the pain due to bunions, bursitis and arthritic conditions. It does do what the advertising claims, and earns enthusiastic recommendation from your customers. Radian-A is now a *must*, on every chemist's shelf. Retails at 3/11½d. a bottle or large economy size 6/8d.

Tax free dispensing packs of the products of Radiol Chemicals Ltd. are available on request. Please write for details.

Telephone:  
VANDyke 2692

**Radiol**  
**CHEMICALS LIMITED**

78 UPPER RICHMOND ROAD, LONDON, S.W.15

# BARBITURATES BY THE TON

Some of the Barbiturate reaction vessels at the Geigy Works, Trafford Park.

Intensive research is ever expanding the Geigy range of Barbiturates. The growing demand is ever increasing the scale of their production.

PHENOBARBITONE B.P.	PHENOBARBITONE SODIUM B.P.	BARBITONE B.P.	BARBITONE SODIUM B.P.
BUTOBARBITONE B.P.C.	HEXOBARBITONE B.P.	CYCLOBARBITONE B.P.C.	CYCLOBARBITONE CALCIUM
AMYLOBARBITONE B.P.C.	METHYLPHENOBARBITONE B.P.		QUINALBARBITONE SODIUM B.P.



PHARMACEUTICAL LABORATORIES GEIGY LTD.

Rhodes, Middleton, MANCHESTER

F.C.12b

# Dearborn

PREPARATIONS

**MERCOLIZED WAX**—for nightly skin care

**MERCOLIZED FOUNDATION CREAM**

**MERCOLIZED ASTRINGENT LOTION**

**STALLAX** — the family shampoo

**SIPOLITE** — a powder depilatory

**PILENTA SOAP** — for the complexion

*Supplies obtainable from our distributors:*

**POTTER & MOORE LIMITED**

Lavender House, Seymour  
Road, Leyton, London, E.10

*Nycol* REGD. LADDERSTOP

**IMMEDIATE SUCCESS**

IT RINSES OUT! National advertising reads—  
“1/3 tube from chemists and stores—  
guaranteed by Good Housekeeping.”  
8/6 doz. +25% tax from your wholesaler

Biometica Ltd., Bullhead Road, Boreham Wood, Herts.

G & G

for Pharmaceuticals & Fine Chemicals



**HALEWOOD CHEMICALS LTD.**

III-III EASTBOURNE MEWS, PADDINGTON, LONDON, W.2.

48 HOURS SERVICE  
IF REQUIRED

**TRUSSES Belts and Supports**

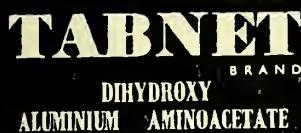
*Sayers, Silcox, Cuzner & Co. Ltd.*

SHAPED SPRINGS FOR GUARANTEED FITTING. NEARLY 100 YEARS  
EXPERIENCE IN SURGICAL APPLIANCE MANUFACTURING

II STORY ST., HULL Tel. 36613/4 Grams. SAYERS, SILCOX, HULL

ESTABLISHED 1858

# These CALMIC preparations are available from your wholesaler



Medical Management of Gastro-Duodenal Ulceration.

Packs : 100 or 1,000 tablets in bottles.

Formula: Each tablet contains:—Dihydroxy aluminium aminoacetate 250 mgms. : Glycine 30 mgms.



Hæmatinic Compound.

Packs : 4-oz., 20-oz., 40-oz. and 80-oz.

Formula: Each teaspoonful contains: Ferrous Gluconate 0.3 gm. : Aneurin. Hydrochlor. 1 mgm. : Riboflavin. 1 mgm. : Nicotinamid. 10 mgm. With trace elements of Copper and Manganese.



Analgesic and Antipyretic Tablets

Packs : 10, 50, 125, 250, 600 and 1,000

Formula: Acid Acetylsalicyl. 40.22% : Phenacet. 48.00% : Caffein. 2.00% : Codein. Phosph. B.P. 0.99% : Phenolphth. 1.04% : Excip. 7.75% : (Each tablet 8 grains).



For Urinary Ammonia Dermatitis.

Packs : 2-oz. jar. 4-lb. Dispensing jar.

Formula: Benzalkonium Chloride 0.01% : Cetrimide 1.00% : in a water miscible base.



Compound Aminacrine Tulle  
Medicated Wound Dressing

Pack: PRESCRIPTION — 10 pieces  
3½" × 3½" in carton each piece separately  
heat-sealed and enveloped.

Formula: Aminacrine Hydrochlor. 0.1% : Hexylresor-  
cinol. 0.1% : in a sterilized glyco-gelatin base.



Antipruritic Fungicide.

Packs : Cream — 2-oz. jars.

Powder — 4-oz. drums.

Formula: Cream:—Parachlorophenylether 0.5% :  
Phenylmercuric Nitrate 0.004% : Acid Salicylic  
0.01% : in a Bentonite Cream base.

Powder:—Parachlorophenylether 2% : Phenyl-  
mercuric Nitrate 0.004% : in a Talc and Amylum  
Powder base.



These CALMIC preparations can be prescribed on form E.C.10.

CALMIC LTD. · MANUFACTURING CHEMISTS · CREWE  
TEL · 3251-5

*For the relief of spasmodic*

*and unproductive coughing . . .*

# I P E C O P A N

an association of alkaloids of ipecacuanha and opium, which loosens bronchial secretion and exerts a sedative action on the cough centre.

## MALTED TABLETS — ORAL SOLUTION

*Literature and samples available on request*



**SANDOZ PRODUCTS LIMITED**

134, Wigmore Street,

London, W.1.

*Introducing*

# 'VASYLOX'

TRADE MARK

## A New Nasal Decongestant

In the common cold and most forms of rhinitis, 'Vasylox' brand Solution of Methoxamine Hydrochloride\* relieves congestion rapidly and for long periods. Even in allergic patients, unresponsive to other nasal therapy, its firm but gentle action frequently restores free breathing. It does not interfere with normal ciliary activity, nor cause stimulation of the central nervous system. Non-stinging and non-irritant, pleasant to use and of agreeable aroma, it can be recommended equally for infants, children and adults.

'Vasylox', which contains 0·25 per cent of methoxamine hydrochloride, is a stabilised isotonic solution. It is supplied in bottles of  $\frac{1}{2}$  fl. oz., each with an individual dropper. Retail price 3/- plus 9d. purchase tax.

\*  $\beta$ -hydroxy- $\beta$ -(2:5-dimethoxyphenyl)-isopropylamine hydrochloride



**BURROUGHS WELLCOME & CO., LONDON**

(The Wellcome Foundation Ltd.)

ASSOCIATED HOUSES:

NEW YORK • MONTREAL • SYDNEY • CAPE TOWN • BOMBAY • BUENOS AIRES • CAIRO • DUBLIN

NEW PRODUCT

for the prophylaxis  
and treatment of throat and  
mouth infections

# BRADOSOL LOZENGES

**antiseptic — soothing**

Bradosol is a potent quaternary ammonium bactericide and fungicide effective against the majority of pathogenic organisms occurring in the mouth and throat

Tubes of 20 lozenges (2/6)

This price is subject to the usual discounts. Bradosol Lozenges are exempt from Purchase Tax.

**C I B A**

*'Bradosol' is a registered trade mark*      Reg. user

**C I B A   L A B O R A T O R I E S   L I M I T E D**  
**H O R S H A M   .   S U S S E X**

*Telephone : Horsham 1234   Telegrams : Cibalabs, Horsham*



## **Simplifying Seasonal Therapy...**

### **PAVACOL for Coughs and Coryza**

A palatable and effective cough syrup which combines the antispasmodic action of Papaverine on the bronchi with the sedative inhibitory activity of Codeine, mild expectorants to assist bronchial secretion and demulcents Glycerine and Tolu to soothe and protect the mucous membranes of the throat. Papaverine and Codeine are also a most successful combination for relieving symptoms and lessening the duration of coryza.

*N.B.—Pavacol is not a scheduled poison.*

**DOSAGE :** Coughs : 1 - 2 teaspoonfuls as required.

Coryza : 1 tablespoonful morning and afternoon and 2 tablespoonfuls at bedtime.

**Packing :** Bottles of 4, 16 and 80 fl. oz.

### **ADAPRIN for Chilblains**

Each tablet contains the therapeutic properties of 10 mgm. Acetomenaphthone (Vitamin K) with those of 50 mgm. Nicotinamide (Vitamin PP.) and not with Nicotinic Acid, thus avoiding the unpleasant symptoms of rapid vaso-dilatation often produced by the latter compound.

These non-toxic tablets are effective both for prevention and treatment of chilblains, and relief may be expected in a few days after treatment is commenced.

**DOSAGE :** Treatment : 1 - 2 tablets three times daily.

Prevention : 2 tablets daily throughout the season when chilblains are prevalent.

**Packing :** Containers of 25, 100 and 500 tablets.



**WARD, BLENKINSOP & CO. LTD.**

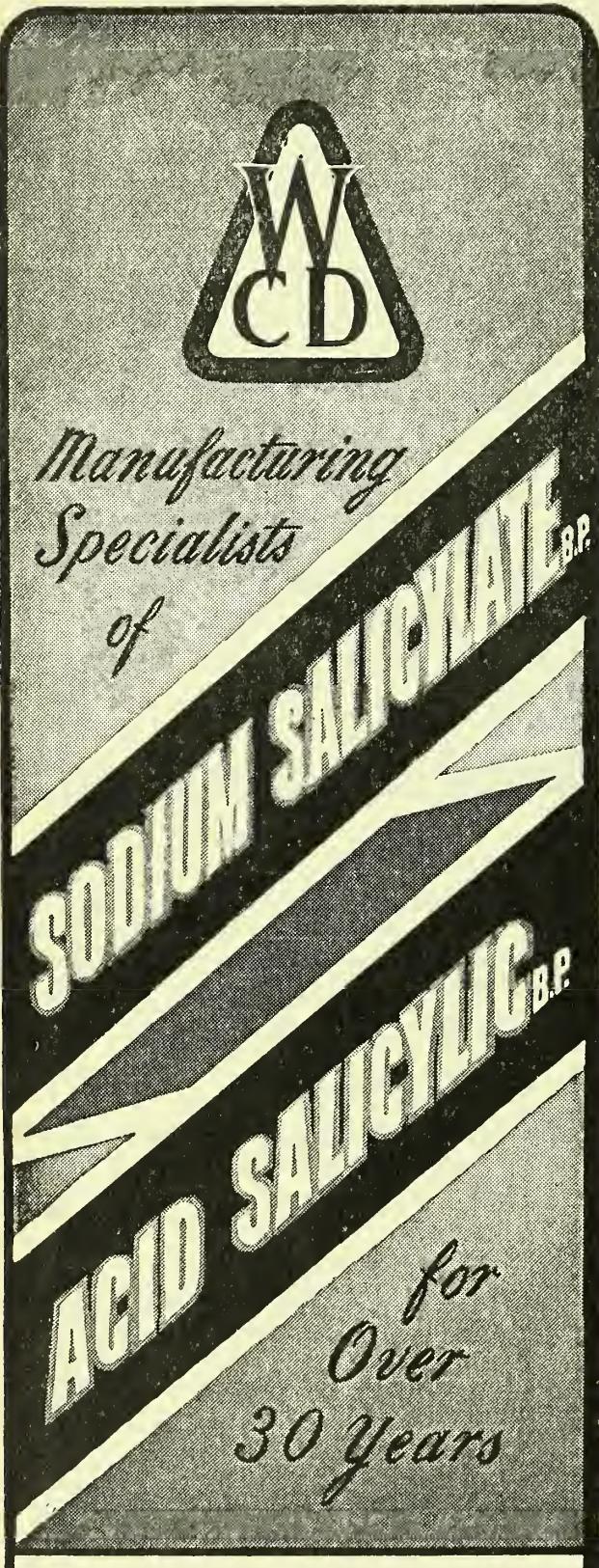
6, HENRIETTA PLACE, LONDON, W.1.

LANGHAM 3185.

Duochem, Wesdo, London.

---

*Makers of Ekammon for Safer Salicylate Therapy*



**WARRINGTON** CHEMICAL  
& DRUG CO. <sup>LTD.</sup>  
PADDINGTON WORKS, WARRINGTON, ENGLAND  
'GRAMS, 'SALICIN', WARRINGTON, PHONE. WARRINGTON 2331-2

**TUNGLOSE**  
BRAND  
PURE MEDICINAL  
POWDERED GLUCOSE  
(Dextrose Monohydrate)

*Ask your Wholesaler*



**TUNNEL GLUCOSE  
REFINERIES LTD.**

Kirkman House,  
54a Tottenham Court Rd., London, W.I  
Telephone : Langham 6972/7

Works : Tunnel Avenue, Greenwich

JKL

**IPECACUANHA B.P.  
JABORANDI  
PAPAIN  
BALSAM TOLU**

Genuine Imported



and all other  
Botanicals, Gums, Waxes,  
Essential Oils and Spices

**JOHN KELLYS (LONDON) LTD.**

Gresham House, 24 OLD BROAD STREET, E.C.2  
Telephone : London Wall 4882, 6585, 6586  
Telegrams : "Ergotine Stock, London"  
Branches in New York and Hamburg

**ENQUIRIES INVITED FOR**

# **ASPIRIN**

## **and ASPIRIN TABLETS**

# **BARBITURATES**

**QUINALBARBITONE SODIUM, CYCLOBARBITONE,  
PHEMITONE, BUTOBARBITONE, ETC., ETC.**

**Manufactured by**

**PIERSON, MORRELL & CO. LTD.**  
THE ORIGINAL BRITISH ASPIRIN MAKERS  
**BARNET, Herts**

Telegrams: Pierson Morrell Barnet

Telephone: BARnet 0723

*Established  
for over  
a century*



*for  
all standard  
and special formulæ of  
gelatine capsules, vitrellii in-  
jectable ampoules, pills, tablets*

**May we quote you for—**

**GLAUBER SALTS** B.P.  
Pea Crystal and Feathery

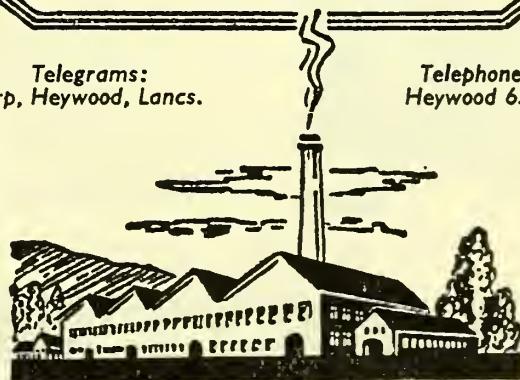
**EPSOM SALTS** B.P.

Needle Crystals, Medium, Exsiccated  
All grades conform to the 1948 B.P. Standard  
Special Crystals matched and any degree of ex-  
siccation to order. Packed for Home and Export

**HARRIS, HART & Co. Ltd.**  
GREGGE STREET WORKS  
HEYWOOD, LANCS.

Telegrams:  
Harp, Heywood, Lancs.

Telephone:  
Heywood 6570



# Is Chlorophyll on your research programme?

CHLOROPHYLL may not be "Green Gold", but executives responsible for research should be conscious of the many potential uses.

A vast amount of scattered research has been carried out in connection with the position of CHLOROPHYLL in medicine. As far back as 1851 Verdeil (*a*) noted the connection between CHLOROPHYLL and Hæmoglobins. After the first world war Burgi (*b*) demonstrated its properties in the stimulation of tissues; and in the United States work has been done to demonstrate the effectiveness of CHLOROPHYLL in ointment for healing wounds. Westcott (*c*) discovered the deodorising properties of chlorophyllins taken internally and his conclusions were borne out by Dijkstra (*d*) in Holland. In the dental

field CHLOROPHYLL has been incorporated in oral cleansing preparations and shown to be efficacious in inhibiting dental diseases.

These facts will indicate many possible lines of research and we would be pleased to supply samples of any of our products for this purpose, and to put your chemists in touch with available references.

#### REFERENCES:

- (*a*) F. VERDEIL, Compt. rend., 1851, 33, 689.
- (*b*) E. BURGI, Das Chlorophyll als Pharmakon. Leipzig 1932.
- (*c*) F. H. WESTCOTT, N.Y. State J. Med. 1950, 50, 689.
- (*d*) B. K. S. DIJKSTRA, Deodorising effects of Chlorophyll.

Available in Oil Soluble Paste, suitable for colouring soaps, etc. Also in Water Soluble pastes and powders. Purities assayed by the Spectrophotometric method evolved by the British Chlorophyll Company. Full details available on request.



FREDK. BOEHM LIMITED · 19 BENTINCK STREET, LONDON, W1 · TELEPHONE WELBECK 7933

# Squeak

TRADE MARK

**REALLY  
KILLS MICE!**

THE ANTI-COAGULANT  
MOUSE EXTERMINATOR.

harmless to children  
and pets—does not  
contaminate food.

Advertised Nationally  
in THE RADIO TIMES  
JOHN BULL  
ILLUSTRATED

Attractive Counter Displays  
and Showcards will make  
SQUEAK your fastest seller.

PRICE  
**1/6**

Obtainable from your usual Wholesaler  
If any difficulty, write direct to

**SOREX (London) Ltd** TONBRIDGE ROAD  
MAIDSTONE · KENT

Smee's

We are direct importers of

**PINEOIL**  
**TERPINEOL**  
**TERPINOLENE**  
**PROPYLENE GLYCOL**  
**LANOLINE B.P.**  
**LECITHIN**

Enquiries invited

**FATOILS LIMITED**  
91-3 BISHOPSGATE, LONDON, E.C.2  
Telephone London Wall 5047 (3 lines)

**RECOMMEND**  
**S.D.2**  
with confidence

**PENETRATES** and **REBUILDS** DAMAGED TISSUE in SKIN ILLNESSES

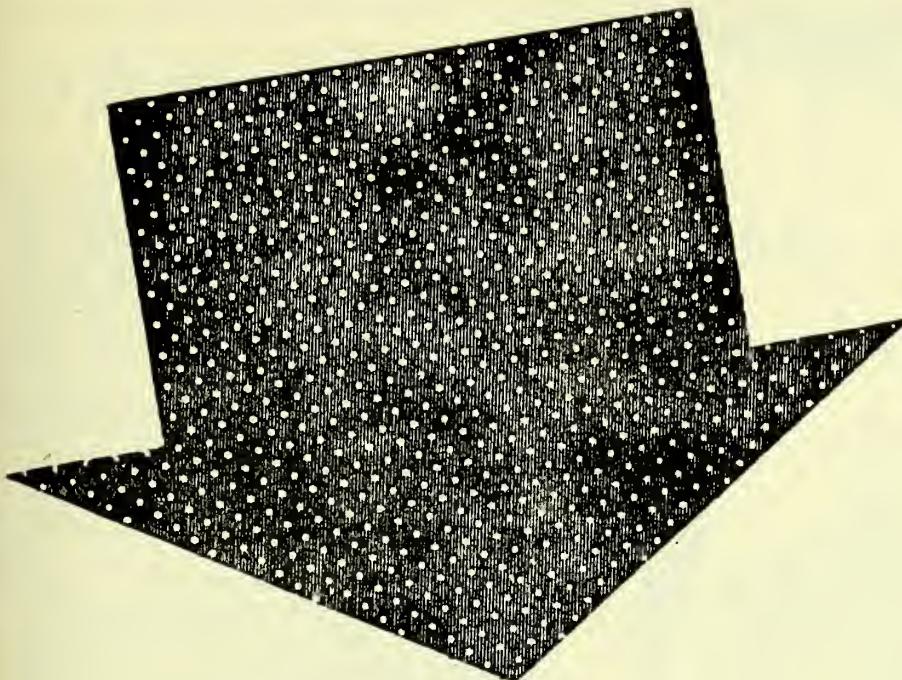
Remarkable for the Treatment of Burns,  
Spots, Rashes, etc.

**BIO-COLLOIDS LTD.**, Altringham, Cheshire  
BC85

December 6, 1952

THE CHEMIST AND DRUGGIST  
SUPPLEMENT

v



*Whiffens offer you immediate delivery*

## QUININE SALTS

SULPHATE · HYDROCHLORIDE · DIHYDROCHLORIDE  
HYDROBROMIDE · DIHYDROBROMIDE · ETHYL CARBONATE  
ETC.

**WHIFFENS**

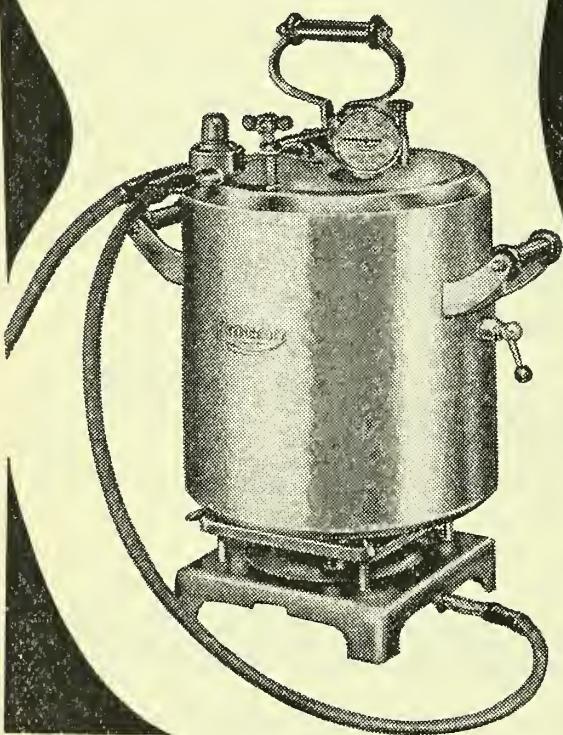


*suppliers of fine chemicals since 1854*

WHIFFEN & SON LTD., CARNWATH ROAD, LONDON, S.W.6

Telephone: Renown 3416      Telegrams: Whiffen, Walgreen, London

A necessity  
in every  
dispensary and  
laboratory . . .



...for complete sterilizing

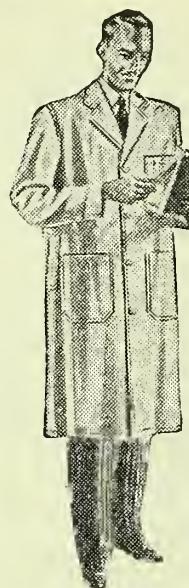
THERMOSTATICALLY CONTROLLED in operation. Full instructions supplied with each appliance.

LIGHT AND HANDY—made from special Aluminium Alloy

ECONOMICAL to operate and inexpensive. Cost £16. 16. 0. (excluding gas ring and flexible tubing)

**Pentecon**  
AUTOCLAVES

Write for leaflet to JOSEPH SANKEY & SONS LTD.  
ALBERT STREET WORKS • BILSTON • STAFFS



## Overall Value

### WHITE COATS

Light weight	34"-46"	.. 27/1
" "	48" & 50"	.. 34/-
Medium weight	34"-46"	.. 29/-
" "	48" & 50"	.. 36/-
Heavy weight	34"-46"	.. 32/1
" "	48" & 50"	.. 38/-

White Jackets 36" to 46" 23/-

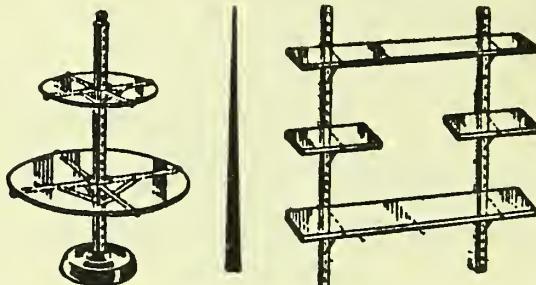
For post orders please send chest measurements and 1/- extra for Postage and Packing. Prices subject to fluctuation.

## GARDINER'S

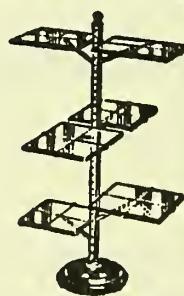
I, 3 & 5 COMMERCIAL ROAD, LONDON, E.C.2  
(Opposite Aldgate East Station)

Telephone: BISHOPSGATE 6751/3

Gardiner & Co. (The Scotch House) Ltd.



## VARY DISPLAY— THE HOKON WAY



A window in which the display is often changed becomes a constant source of interest to the public. HOKON display equipment enables you to change your window display regularly with very little effort but to very great effect. The height, layout and general appearance can be altered in a few moments.

## CHURCH & CO. (Fittings) LTD

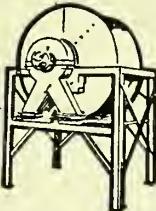
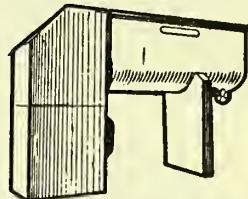
16 The Oracle, Minster Street, Reading  
Glasgow Showroom: 77 Queen Street, C.I.  
Phone: HAL 4429. Can be visited by appointment  
"ABERDEEN and N.E. Showroom"  
121 Crown Street, ABERDEEN Phone: 23373

# Have you a MIXING problem?

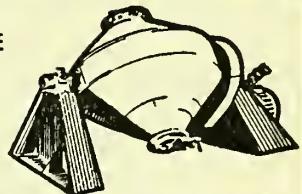
Here is the  
**LARGEST  
MODERN  
RANGE  
OF MACHINERY**



VERTICAL  
OR  
HORIZONTAL



DRUM TYPE  
OR  
DOUBLE  
CONICAL



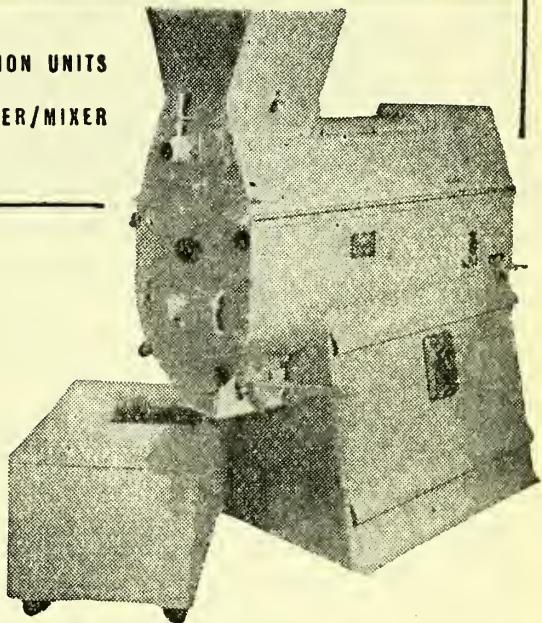
OR COMBINATION UNITS

'RAPID' SIFTER/MIXER

# GARDNERS *of Gloucester*

By continuous research into methods and materials, Gardners range of mixing machinery is kept abreast of modern developments, and the standard designs available cover the majority of known manufacturing processes. Machines can be designed for special purposes.

Backed by this large range and the experience of nearly a century in powder processing, Gardners can offer an unequalled service to manufacturers. Please let us know your requirements or let our fully equipped laboratory test your materials in confidence.



The popular SIFTER/MIXER illustrated is available in a wide range of sizes. Of all steel construction it is totally enclosed with inbuilt motor and gears. The unique design permits easy removal of brush, sieve and agitator for cleaning out. Other advantages include freely accessible outlet and the latest type oil-impregnated bronze bearings. Please write for literature.

**WM. GARDNER & SONS (Gloucester) LTD., BRISTOL ROAD, GLOUCESTER**

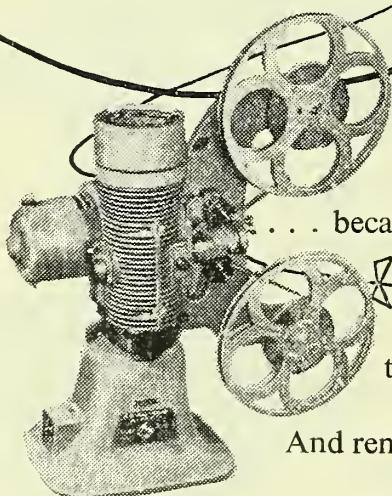
Telephone: Gloucester 21261. Telegrams and Cables: "GARDNER GLOUCESTER"  
London Office: 1 Albemarle Street, London, W.1. Phone: Grosvenor 8206

*The show must go on...*

WITH THE **S.B.-Bell & Howell**

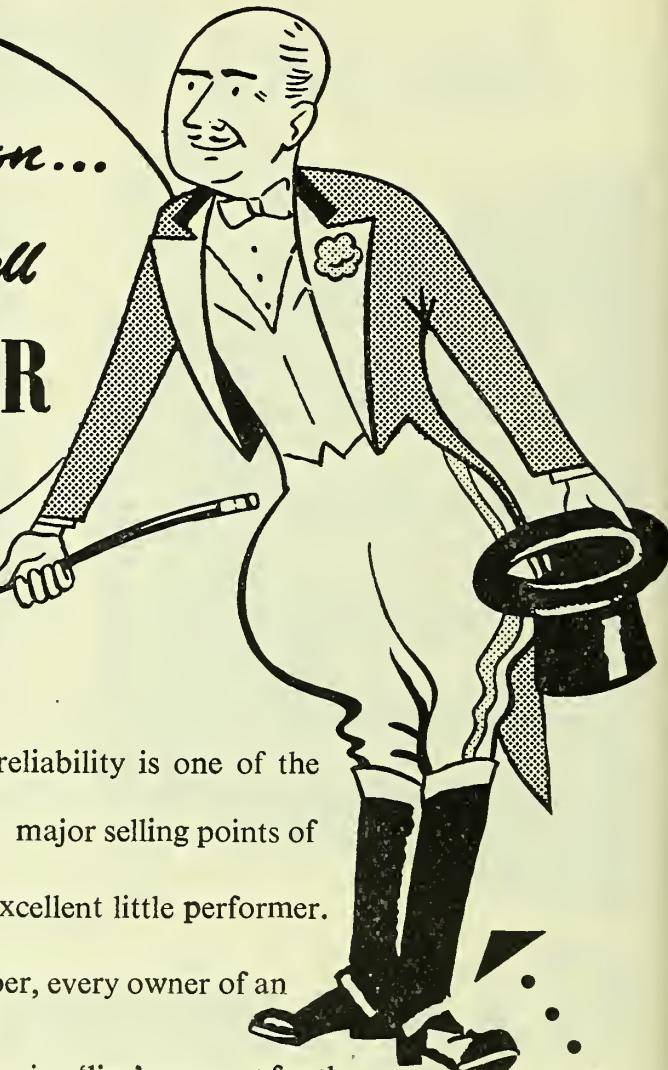
# 606 SCREENMASTER

**8 mm PROJECTOR**



... because reliability is one of the  
major selling points of  
this excellent little performer.

And remember, every owner of an  
old 8mm. projector is a 'live' prospect for the



SCREENMASTER, for every 8mm. user wants to project his films at their best.

### YOU CAN BUILD YOUR HOME-MOVIE BUSINESS

by telling your 8mm. customers about the Screenmaster, by demonstrating  
the easy operation and advanced features which give professional  
quality to its performance.

#### remember...

every time you sell a Screenmaster, you open the door for G.B. Movie Paks, the finest range of specially made 8mm. films for every taste, age and occasion. Please write for catalogue.



#### we will help you... • •

in every way—with literature, display material and other sales aids. The attractive figure in this advertisement is one of a series of colourful cut-out showcards available free to all accredited dealers. Have you sent for yours yet? Please write to Dept. CD/12/52.

## G. B. EQUIPMENTS LTD.

A Product of British Optical & Precision Engineers Ltd.

Mortimer House · 37-41 Mortimer Street · London · W.1.

A Company within the J. Arthur Rank Organisation



One of  
Ransom's  
fields of  
Belladonna  
Plants.

Ransom's Tincture of Belladonna owes its unsurpassed quality to the care and skill which is exercised at every stage of its production.

## Quality is born of Experience

The finest vegetable drugs and galenicals come only from the finest plants. Cultivation of medicinal plants is an art that comes only from long experience. It is because Ransoms of Hitchin have specialised in drug growing for over a century that the name Ransom has become synonymous with unsurpassed quality in drugs and galenicals in all parts of the world.  
*Actual growers of belladonna, henbane, foxglove, chamomile, peppermint and lavender*

*Established 1846*



**WILLIAM RANSOM & SON LTD.**  
Hitchin Hertfordshire England

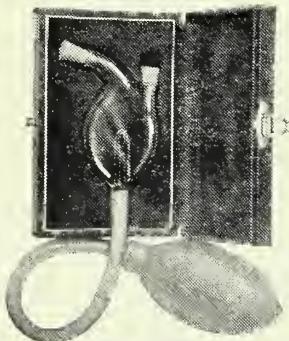
NHS

*The following RIDDELL Asthma Inhalers can be supplied on E C 10 forms :—*

	<b>ASTHMATOR</b>	<b>14/6</b>	<b>Retail</b>	<b>8/9</b>	<b>Cost</b>
•	<b>DRITAX</b>	<b>18/-</b>	<b>„</b>	<b>11/1</b>	<b>„</b>
•	<b>RIDDOFAN</b> (In Leatherette Case)	<b>19/3</b>	<b>„</b>	<b>12/3</b>	<b>„</b>
•	<b>POCKET RIDDOPAG</b>	<b>20/6</b>	<b>„</b>	<b>12/4</b>	<b>„</b>
•	<b>RIDDOPAG (INC. MASK)</b>	<b>25/-</b>	<b>„</b>	<b>15/-</b>	<b>„</b>

AND THE POPULAR—

**RIDDOBRON** ASTHMA INHALANT 12·5 gm.; 25 gm.; and 100 gm.



**RIDDELL PRODUCTS LIMITED**  
AXTELL HOUSE · WARWICK STREET



• LONDON • W.I. •

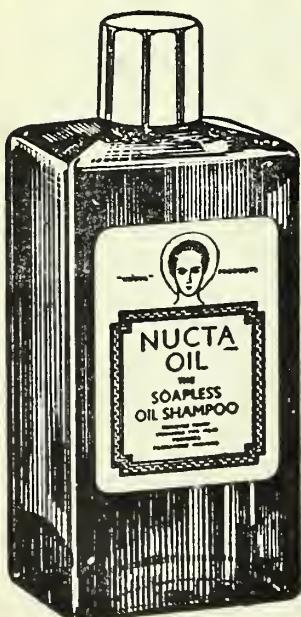
P.A.T.A.

Telephone: GERrard 3754 (3 lines)

# NUCTA OIL

**THE SOAPLESS  
OIL SHAMPOO**

*with the scalp penetrating action*



AVAILABLE FOR COUNTER SALE  
In 4 oz. size selling at ... ... 2/9  
(18/- per doz. plus tax)

In 8 oz. size selling at ... ... 4/3½  
(28/- per doz. plus tax)

**A NUCTA SPECIALTY  
PRODUCT**



OBtainable from your usual  
WHOLESALE

*Manufactured by:*

STEWART, GOODALL & DUNLOP LTD., 121a PRINCES STREET, EDINBURGH

**FOR HOME & EXPORT**

**STRYCHNINE SALTS**

**PHENOTHIAZINE**  
***Dispersible Powder***

**CALCIUM LEVULINATE**  
***oral and injectable***



**M·W·HARDY**  
**AND COMPANY**  
**(OVERSEAS) LTD**

★ We can  
supply these  
and many other  
drugs advan-  
tageously.

**PINNERS HALL · GT WINCHESTER ST · LONDON · E.C.2**

TELEPHONE: LONDON WALL 7131

CALCIUM GLUCONATE  
CITRIC ACID  
CREAM OF TARTAR  
ITACONIC ACID  
ROCHELLE SALTS  
TARTARIC ACID  
LITHIUM SALTS

Est. 1870

Kennell & Bishop  
& Company Limited

Crown Chemical Works, Three Mill Lane, Bromley-by-Bow, London, E.3.  
Teleg. Addres: KENMAIL, LONDON • Telephone: ADVANCE 1234 (7 lines)

# SURGICAL DRESSINGS

*SPECIALISTS in the Manufacture of*  
**PURE WHITE ABSORBENT GAUZES,  
AND BANDAGES**

Hospital and B.P.C./N.H.I. Qualities  
Plain and Sterilised.



**WOVEN BLEACHED AND PACKED IN  
OUR MODERN HYGIENIC FACTORIES**

AT  
**DUDLEY AND BLACKBURN**



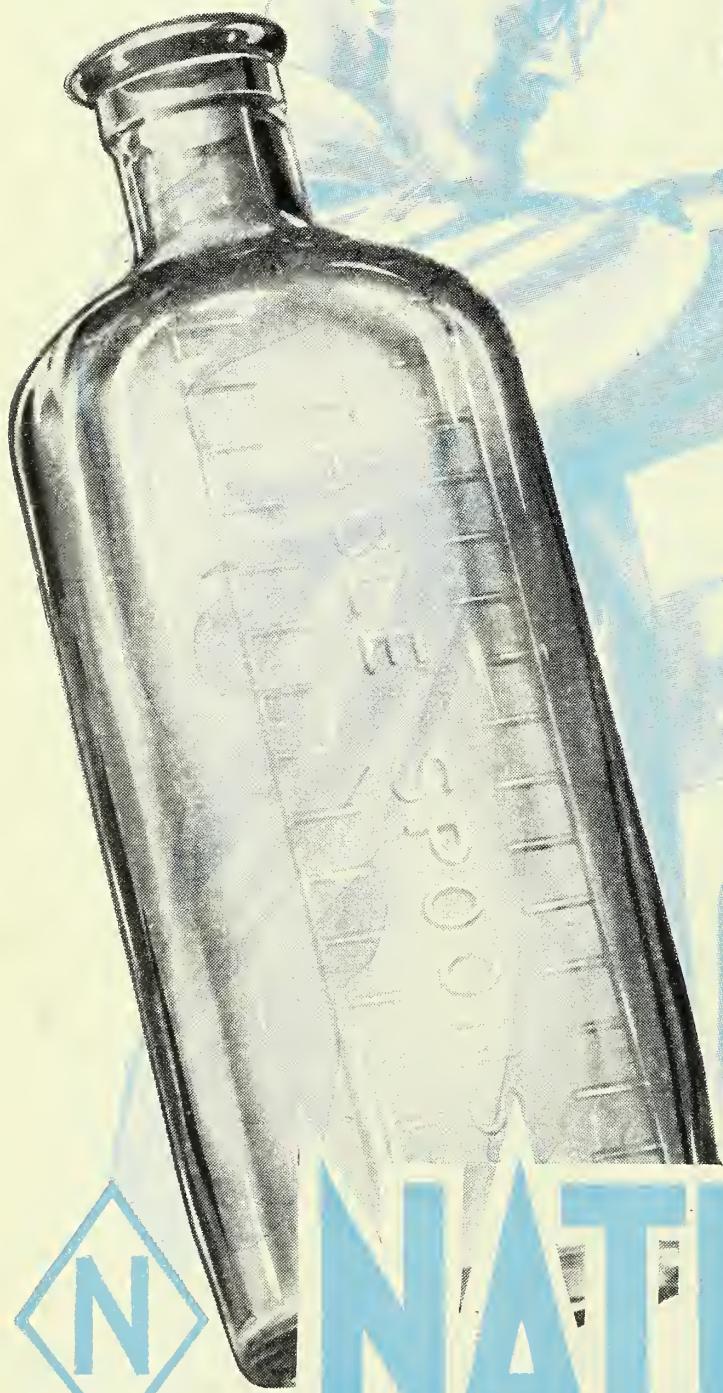
**SUPPLIERS TO GOVERNMENT DEPARTMENTS,  
HOSPITALS, WHOLESALERS, ETC.**

**sanford**

*Manufacturing & Trading Company Limited*

RUSSELL HALL • DUDLEY • WORCS

# WHITE FLINT Medical and Pharmaceutical BOTTLES



WHOLESALE ONLY

# NATIONAL

TRADE MARK

**National Glass Works (York) Ltd.**

Fishergate, YORK  
Telephone: York 3021

105 Hatton Garden, London, E.C.1  
Telephone: Holborn 2146

# When women believe - they BUY!

Every day letters like these arrive, proving the ever-rising appeal of BRISTOW'S LANOLIN SHAMPOO. Bouquets for Bristow's mean sales for you. Show it, recommend it—and be ready for the constant demand.

LIVERPOOL

Dear Sirs,  
I feel I must write and let you know how pleased and satisfied I am with the results of your Lanolin Shampoo. It really does all you claim for it. My little girl has a head of lovely natural curls, but of never looked lovelier than lately after one tube of your Shampoo—the shine and the silkiness are constantly remarked upon.  
Yours faithfully,  
(Sgd.) MRS. H. B.

WIGAN

Dear Sirs  
I am writing to compliment you on producing such a wonderful shampoo as Bristow's Lanolin Shampoo. It really lives up to what the advertisements claim to be, and I find that the Lanolin ingredient is especially good in correcting dryness.

I have found your shampoo exceptionally good before doing Home Permanent, as the hair is left silky and supple, just right to take and hold a perm. (Sgd.) MISS J. H.

NOTTINGHAM

Dear Sirs,  
I would like to tell you how much I enjoy using Bristow's Lanolin Hair Shampoo. My hair was dry and brittle but your shampoo has improved it greatly. My daughter uses it too—and is delighted with the results. We both recommend Bristow's Lanolin Shampoo to our friends, having great confidence in it ourselves.  
Yours faithfully,  
(Sgd.) MRS. D. R.



## TRADE TERMS

**HANDY TUBE:** 10/9d. per dozen plus purchase tax 3/7d, to retail at 1/6d.

**STANDARD TUBE:** 16/9d. per dozen plus purchase tax 5/7d, to retail at 2/4d.

**AIDS TO ADVERTISING****TOWNSEND'S****10" x 10" WRAPPERS**

variety of styles

**WINDOW BILLS**

9" x 29", in colours

**FANCY COUNTER BAGS**

10" x 5", satchel shape

SAMPLES WITH PLEASURE

**TOWNSEND'S**

(JAMES TOWNSEND &amp; SONS, LTD.)

CHEMISTS' PRINTERS

LITTLE QUEEN STREET, EXETER

Also THE ORCHARD PRESS, EASTCOTE, PINNER


**CORKS,  
STOPPERS,  
BUNGS.**

Telephone

Royal 4922/3

CAMPERDOWN STREET  
LONDON, E.I.

**"AGITATING"  
PROBLEMS  
SOLVED!**

PHONE :  
BLACKFRIARS  
7224 (4 lines)

**Mitchell**

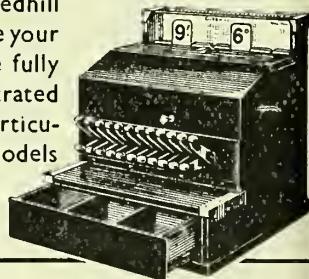
Eliminate those worries about fluid-agitation by installing Mitchell mixers. Our range includes models for handling liquids of every consistency in the quickest and most efficient way with the minimum of operational and maintenance costs.

**L. A. MITCHELL LIMITED**  
37 PETER STREET • MANCHESTER 2

MX. 47a.

**ADD AN ADDER  
to your business**

Think of the many things the Adder on a Gledhill Cash Register can do for your business. It registers the amount of all cash sales and totals the money to be accounted for ; it eliminates guessing, prevents disputes, protects the assistant as well as the customer and enables you to check takings at any time of the day and to get an accurate grand total. If you wish to know of the many other ways in which a Gledhill Register can improve your service send for the fully informative illustrated Catalogue, giving particulars of the many models available.  
**BRITISH MADE  
FOR 60 YEARS.**



**G. H. GLEDHILL & SONS LTD**  
28 TRINITY WORKS, HALIFAX.

**QUALITY · SERVICE ·****TABLETS**

We  
exercise the great-  
est care in the manufac-  
ture of proprietary line.

**PROPRIETARY REMEDIES**

and can supply either in  
bulk or packed for market,  
including the printing  
of special labels &  
cartons

**THE COOPER LABORATORY  
LIMITED**

**OLD FARM ROAD  
WEST DRAYTON  
MIDDX.**

**COMPETITIVE PRICES**



# **SURGICAL DRESSINGS**

complete range

means

**AYRTON SAUNDERS & CO. LTD  
LIVERPOOL**

Have you got your copy of  
**THE CHEMIST'S DICTIONARY  
OF SYNONYMS?**



This book incorporates ROUSE'S SYNONYMS  
and contains over 7,000 synonymous terms.  
It is a most useful book of reference.



**5/4 post free**

**THE CHEMIST & DRUGGIST**  
28 ESSEX STREET · STRAND · LONDON · W.C.2

**C.V.B**  
CARR'S VITAMIN B<sub>1</sub>  
PREPARED WHEAT EMBRYO

A RICH NATURAL SOURCE OF  
**VITAMINS B and E**

TWO SIZES  
**1/9 or 3/-**

Trade 16/- doz. or 27/- doz.  
FREE NON-RETURNABLE CARTONS

From Principal Wholesalers  
or from the Manufacturers

**CARR'S CEREAL PRODUCTS LTD**  
CARLISLE

**BRANNAN**  
GUARANTEED  
**THERMOMETERS**

CLINICAL - HOUSEHOLD - INDUSTRIAL  
When ordering Thermometers, insist upon  
Brannans—made by highly skilled workers at  
Britain's most modern Thermometer Factory

S. BRANNAN & SONS LTD.

46 London Road, Forest Hill,  
S.E.23.

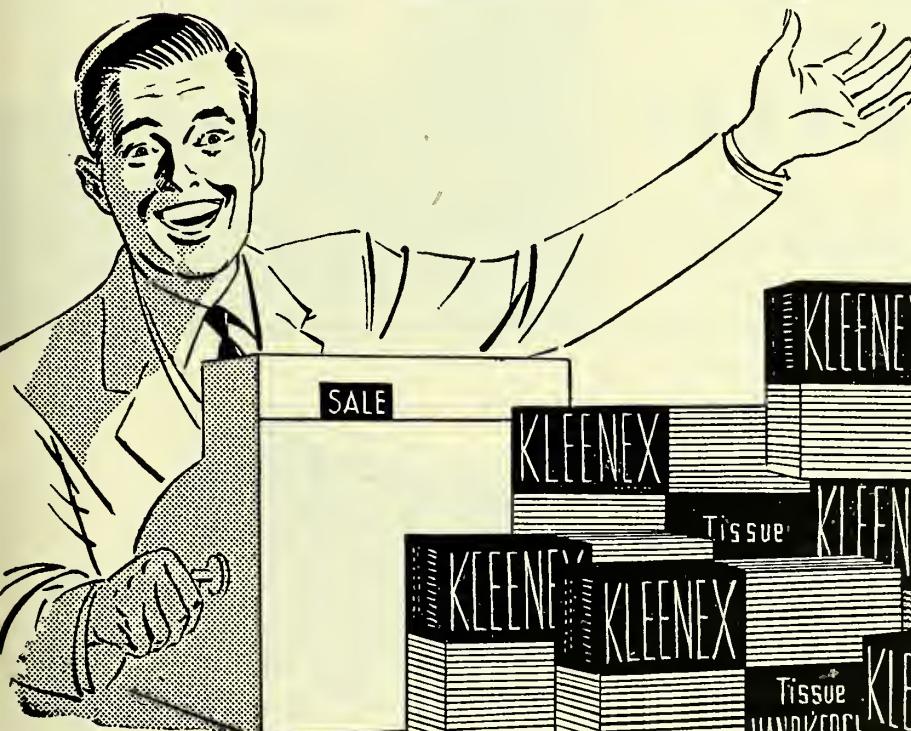
Tele: Forest Hill 3414-5

Northern Factory :  
Cleator Moor  
West Cumberland  
Tel.: Cleator Moor 310



**SUPREME  
BRANNAN  
ACCURACY**

# You sell more tissues when you display **KLEENEX**



Because Kleenex,\* the softest, strongest tissue, is also the best value—at 150 tissues for 1/- Kleenex is the tissue that makes your customers tissue-minded, eager to buy. So display Kleenex for biggest tissue sales !

\*Reg. T.M.

**KLEENEX ON YOUR COUNTER**

**MEANS MONEY IN YOUR POCKET**

**For**  
**40 YEARS**  
**"EUPINAL"**  
 (A C.F. LINE)

*has been successfully used in  
the treatment of*

**ASTHMA AND  
CHRONIC  
BRONCHITIS**

There is every opportunity for the Pharmacist to build sound and profitable business with this old established preparation.

"Eupinal" contains Ammonium Caffeine Iodide in a most elegant and effective combination

In Chronic Bronchitis "Eupinal" softens the tough accumulated mucus in the bronchial tubes and allows it to be more readily expectorated. In Asthma it possesses a markedly soothing effect, lessening the frequency of attacks and reducing their severity and duration, and relieving breathlessness. "Eupinal" contains no poison and may be taken for prolonged periods.

	Retail each inc. tax	Purchase tax doz.	Trade price doz.
4 Oz.	3/10	8/10	26/6
8 Oz.	6/10	16/-	48/-

BONUS—One 4 oz. bottle with each 26/6 value ordered.

DISPENSING PACK — 40 oz.  
17/6 (tax free) each.

SHOWCARD AVAILABLE

A PRODUCT OF

*Cuxson Gerrard & Co. Ltd.*  
OLDBURY BIRMINGHAM  
Phone: BROADWELL 1355 (4 lines)

**Femex** REGD.

**SANITARY TOWELS**

for  
Perfect Reliability

**HIGH QUALITY  
NON CHAFING  
HIGHLY ABSORBENT**

*In various sizes*

**WILFRED STRETCH & CO.**  
LIMITED  
CASTLETON • ROCHDALE



**REGULAR ROAD DELIVERIES**

*In the West of England and  
South Wales Areas*

*The House in the West for all  
Chemists' Supplies*

*Send us your orders for prompt and  
careful attention.*

**FERRIS & COMPANY LTD.  
BRISTOL**

**Manufacturing and Wholesale  
Chemists**

**Telephone:  
BRISTOL 21381**

**Telegrams:  
FERRIS, BRISTOL**

# Still the most reliable remedy for Rheumatism

For nearly 40 years Curicones has been kept abreast of medical research. With its present formula, it is certainly the most reliable general remedy you can recommend to Rheumatic sufferers.

And its advertising is never allowed to get in a rut. Now that it is being stepped up in volume, watch Curicones sales begin to grow. Never let yourself run out of stock of either the 5/6 or 26/5 size.

We still have small supplies left of our novel "weather indicator"

showcard. It is most effective and surprisingly accurate. Send us your name and address for one and see the interest it attracts.



AND P.A.T.A.

**STEPHEN MATTHEWS & CO., LTD.,  
19/21 FARRINGDON STREET, LONDON, E.C.4**

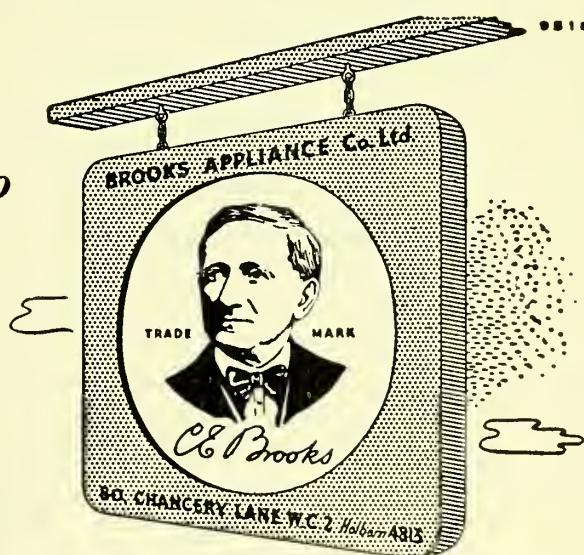
*We first displayed  
our sign in 1910*

For 42 years the Brooks Appliance Co. Ltd. has been making comfortable, safe and made-to-measure BROOKS RUPTURE APPLIANCES... constantly improving them over the years.

**OF SPECIAL INTEREST TO CHEMISTS AND OTHERS WITH SURGICAL DEPARTMENTS**

For some time now we have been establishing Sales Agents in Great Britain and overseas. Vacancies for more are still available and applications are cordially invited.

Our co-operation and terms are worth while investigating.



Appliances supplied under the  
**NATIONAL  
HEALTH SERVICE**

*Today BROOKS is the largest organisation of its kind.*

**BROOKS APPLIANCE COMPANY LTD.**

80 CHANCERY LANE, LONDON, W.C.2

TON CHAMBERS, HILTON STREET, MANCHESTER 1. 66 RODNEY STREET, LIVERPOOL 1

*Important Preliminary Announcement*

## PHARMACEUTICAL FORMULAS VOL. 1

A new edition of this standard reference book will be published at the end of this year. This edition—the twelfth since 1898—is completely rewritten. It incorporates the newer formulations required by recent advances in medical practice, whilst retaining the best of the recipes which have made this book unique throughout the past half-century. Over 1100 pages of essential information.

*Orders will now be accepted for delivery*  
*on publication*

Price 37s. 6d. (Postage 1s. 1d.)

Orders and remittance should be sent to The Publisher

The  
**CHEMIST AND DRUGGIST**  
28 ESSEX STREET, STRAND,  
LONDON, W.C.2.

**A MUST for****tens of****thousands****of denture  
wearers****...with  
the moral  
support of  
their dentists**

**DENCLEN**  
Gets plastic  
dentures spotless  
in 30 seconds

Retail price 2/9 per bottle, incl. P.T.

Trade price 18/- per dozen, plus 33½% P.T.

RAUTH CHEMICALS LTD • WEYBRIDGE • SURREY

# GOING GREY?



Perfectly  
Harmless

**Keep it  
DARK with  
SHADEINE**

— Your SALES are assured if  
you stock SHADEINE!

Still the best hair tint. In all natural shades.  
Stocked by all wholesalers. Trade prices—1 oz.  
18/- per doz., 2 oz. 29/7 per doz. Purchase Tax  
100%. Retail Prices 3/6 and 5/9 per bottle  
respectively. Also the new GOLDEN SHADEINE  
for lightening mousey hair. 2 oz. 18/- per doz.  
Purchase Tax 100%. Retail Price 3/6 per bottle.



**THE SHADEINE CO.**  
49 Churchfield Rd. Acton, London, W3.

# Over

# 70 years ago

MORE THAN SEVENTY YEARS AGO. Howard Lloyd and Company Limited opened their Leicester factory and began work, filling their first orders for medical and pharmaceutical preparations.

Since then, literally hundreds of thousands of orders from doctors, chemists and hospitals all over the world have been speedily and successfully attended to—orders covering almost every kind of pill, tablet, capsule and other pharmaceutical preparations.

Today, the Howard Lloyd Company can call on the best of two worlds; long experience and modern methods combine to provide, in their tablets, their pills and capsules, a service that doctors and chemists can confidently rely upon.

If you require preparations manufactured to your own formulae, or to official formulae, why not contact the Howard Lloyd Company and talk it over with them. You'll find their chemists most helpful and well able to cope with most of the problems that might confront you.

**HOWARD LLOYD  
AND COMPANY LIMITED**

LONDON OFFICE:  
11 WATERLOO PLACE, LONDON, S.W.1  
AND AT LEICESTER

*Makers of Fine Pharmaceuticals to  
the Medical Profession since 1880*

# OINTMENT MILLS

## *Super Speedy Mill*

IN REGULAR USE ALL OVER THE WORLD

THIS Machine is a combined Mixer and Grinder and is used very successfully in the production of all kinds of Ointments, Tooth Pastes, Beauty Creams, Patent Foods, etc.

Each Machine incorporates Thirty Years' Accumulated Experience

S. W. WILKINSON & CO. LTD.,

Chemical Engineers and Specialists in Pharmaceutical Machinery

WESTERN ROAD - LEICESTER



### "Eagle" Brand Chemicals

B.P.

PRECIPITATED  
SULPHUR

PHOTOGRAPHIC  
H Y P O  
AND  
SULPHITE  
— CRYSTALS and ANHYDROUS —

EPSOM SALTS

GLAUBER SALTS

ARSENATE OF LEAD

Enquiries Invited

JOHN RILEY & SONS, LTD

Chemical Manufacturers

HAPTON near BURNLEY

Telegrams:  
"Rileys Hapton"

Telephone :  
Padham 290/1

### BOTTLE CAPS

WAGNER'S DRY AUTOMATIC  
Best in quality and appearance  
PROMPT — DELIVERIES



Self-Fixing  
**R.V. WAGNER**  
Bushey Hall Garage, Bushey Hall Rd., Watford, Herts

### RECOMMENDED FOR NERVES

DR. NIBLETT'S  
**VITAL RENEWER**  
NERVE SEDATIVE

for  
70 YEARS  
Retail price  
6/- per bottle  
including  
purchase tax.

TRADE DISCOUNT 33½%  
**C. P. NIBLETT** (Est. 1870)  
10 LICHFIELD TERRACE, RICHMOND, SURREY  
Telephone : RICHMOND 3221

# How much have YOU forgotten?

*about : —*

THE pH SCALE

EMULSIONS AND EMULSIFYING AGENTS

EMULSIONS AND OINTMENT BASES

ASEPTIC TECHNIQUE

NAMING OF ORGANIC COMPOUNDS

ANTIBIOTICS

DISINFECTANTS AND ANTISEPTICS

BARBITURATES

ISOTONIC SOLUTIONS THE PREPARATION OF STERILE MEDICAMENTS

HORMONES

THE SULPHONAMIDES

DEPOT MEDICATION

NEUROMUSCULAR AND GANGLIONIC BLOCKING AGENTS

ANTIHISTAMINES

ANALGESIC DRUGS

ANAEMIA AND LIVER

ANTICOAGULANTS

BLOOD PRODUCTS AND PLASMA SUBSTITUTES

CHEMISTRY OF THE HORMONES

CHEMISTRY OF THE BLOCKING AGENTS

up to the minute information—compiled by a team of experts—reprinted from "The Chemist & Druggist"—is contained in the :—

C. & D.

REFRESHER COURSE  
for Pharmacists

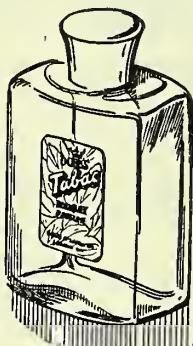
PRICE 3/- postage  
2d.

The CHEMIST & DRUGGIST, 28 ESSEX ST., LONDON, W.C.2

# Dobb's TABAC

PERFUME  
TOILET-ESSENCE  
LUXURY SOAP

*Price List and  
samples on request.  
Special Bonus-terms.*



From your  
wholesaler  
or direct from  
the Manufacturers:

**DOBB'S  
OF LONDON**  
Telephone;  
ARChway 6543

192 SEVEN SISTERS ROAD, LONDON, N.4

# JACKSON'S FEBRIFUGE



**1/7, 3/10, 6/4**  
Inc. Purchase Tax

Also other famous  
specialities:—  
Camodine Ointment  
and  
Drawing Ointment

**GEORGE JACKSON & SONS LTD.,**  
Brewery St, Harpurhey, Manchester. 9

## SURE-SELLING STOCK!

OVER 150 YEARS REPUTATION

## KEARSLEY'S

THE ORIGINAL

### WIDOW WELCH'S FEMALE PILLS

9d. BOX PROFIT by ordering 1 dozen  
3/3½ size. Bonus given on every  
dozen (13). It pays to push this size.

**C. & G. KEARSLEY LTD.**  
71 DARTMOUTH RD., LONDON, S.E.2  
Established 1787 In the Reign of King George III

## TUBULAR BANDAGES

IN ALL WIDTHS

**MEDLOCK MANUFACTURING CO. LTD.**

Medlock Mills, Oldham  
Telephone: Main 2948

## "RODINE"<sup>REGD</sup>

THE RAPID RAT REMOVER

**Always in demand!**

T. HARLEY LTD., PERTH, SCOTLAND

'VERLOG' (Trade Mark)  
SURGICAL ELASTIC HOSIERY  
Belts, Trusses, Suspensory Bandages, etc.  
ATHLETIC SUPPORTS  
Knee Caps, Anklets, Jockstraps  
THOS. GLOVER & SON, LTD., CARLTON, NOTTINGHAM  
Tel.: 58227 (2 lines). 'Grams: Verlog, Nottingham

**WE WANT**



Sole Manufacturers : JEFFREYS,  
MILLER & CO. LTD., Leyland Mills,  
Wigan. (London Dept. 19 Brookside Rd. N.)

**MILLAMALT**  
BECAUSE OF THE BUTTERSCOTCH FLAVOUR

# RENTOKIL

**TIMBER FLUID**

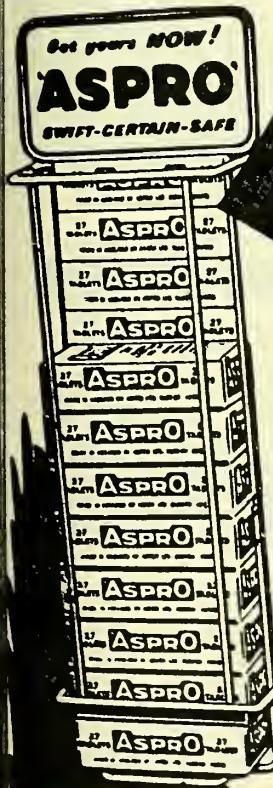
## KILLS WOODWORM

Record sales have proved the public's appreciation of RENTOKIL TIMBER FLUID. ALWAYS hold adequate stocks of this outstanding woodworm preventive. Retails at 2/-, 3/3, 5/9, 9/6 and in bulk. Complete Outfit including 8 oz. bottle and NEW Injector 10/6. Send NOW for attractive trade terms of all Rentokil Products.

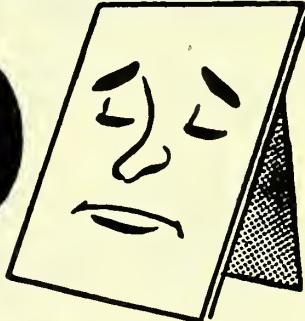
**RENTOKIL LTD.**  
FETCHAM, LEATHERHEAD, SURREY  
Tel; Leatherhead 4021-2



## Some displays are PASSIVE



**HERE'S ONE  
THAT'S ACTIVE!**



Are you using the new handy-to-use 'ASPRO' Silent Salesman? If not, our representative will be pleased to fix one for you when next he calls. It is an ACTIVE display in the sense that it is not a mere reminder but actually creates sales. Placed prominently at eye level it catches the attention of every customer.

**KEEP IT FILLED-IT MAKES SALES!**

*Have you noticed the NEW STYLE*  
**'ASPRO'** ADVERTISING?  
—THE PUBLIC HAVE!

*Recommend to  
your customers*

# Ralgex

ANALGESIC — RESOLVENT  
COUNTER-IRRITANT

## SOLID EMBROCATION

for  
RHEUMATIC and MUSCULAR PAINS  
NEURALGIA and HEADACHES  
BRONCHITIS, CATARRH and LARYNGITIS  
Handy, clean, practical and efficacious. Prescribed by doctors and regularly advertised in medical and nursing journals.

*Write for trade terms, samples &  
literature.*

**PHARMAX LIMITED**

*The Organ Works, Old Hill, Chislehurst, Kent*



*A Quality Product*



*Pure manilla tissue*  
Manufactured by  
**HAROLD WESLEY LTD.**

HARLEY MILLS LONDON N.W.10

*An important monograph :—*

## ELECTROPHYSIOLOGICAL TECHNIQUE

by C. J. Dickinson, B.A., B.Sc.  
(*Magdalen College, Oxford*)

Price 12/6

The author describes the use of electronic methods as applied to research in Neurophysiology. Chapters are devoted to amplifying, recording and stimulating techniques used in physiology and medicine (e.g., electrocardiography, electroencephalography, etc.).

### Extracts from recent reviews:—

"This laboratory handbook will be welcomed by all physiologists who are engaged in laboratory or clinical research."

(*Journal of Neurology, Neurosurgery and Psychiatry*)

"Can be recommended to all who are concerned in electrophysiological measurements."

(*Journal of Scientific Instruments*)

Order through your bookseller or direct from the publisher:—

**ELECTRONIC ENGINEERING**  
28 ESSEX ST., STRAND, LONDON, W.C.2

## FIRE! WHICH COLOUR **NU-SWIFT?**

Red, blue or black? Distinctive colours for different fire risks prevent costly errors. Are your extinguishers the right colours? Write, or phone ELLAND 2852, for free advice.

NU-SWIFT LTD. • ELLAND • YORKS

In Every Ship of the Royal Navy

ESTABLISHED 1793

## ATKINSON & BARKER'S INFANTS' PRESERVATIVE

The Infants' Medicine  
of 150 years' standing

For teething and digestive troubles

**ROBERT BARKER & SON, LTD.**  
13 ALISTAIR STREET, MANCHESTER, I

# LIVER EXTRACTS

## Bulk, Vials or Ampoules

Actual Manufacturers specializing in crude liver extracts would welcome enquiries from the trade for large or small quantities of:—

- (a) Injectable liver extract, especially in strengths of 2, 5, 10 and 15 U.S.P. units per cc.
- (b) Oral extracts, concentrates etc., including the official preparations.
- (c) Extracts to special standards or requirements.

All the above made from FRESH LIVERS ONLY, in our factory in Roscrea, IRELAND.

For prompt attention and quotations, please write or telephone to:—

## ANTIGEN LTD.

Manufacturers of Biological Products,  
5 Rampayne St., LONDON, S.W.1

Telephone: VICToria 5555.

# askit

THE POWDER WITH A REPUTATION

**For over 30 years  
Scotland's leading  
Proprietary Medicine**

for the speedy relief of  
Headaches, Neuralgia, Neuritis  
and all Nerve Pains.

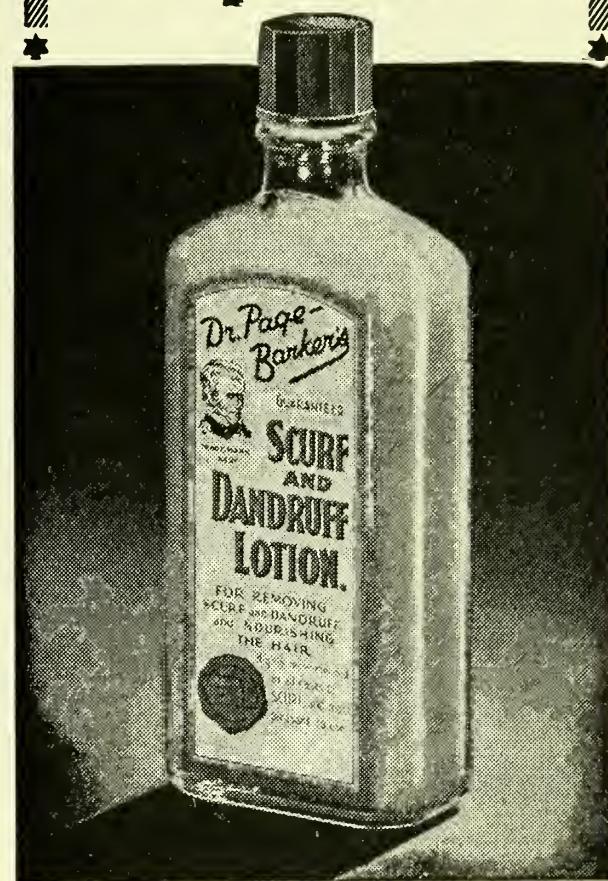
Manufactured by

ASKIT LTD MANUFACTURING CHEMISTS  
GLASGOW N

and stocked by

ALL LEADING WHOLESALE HOUSES

# Stops Scurf



## Page-Barker's SCURF AND DANDRUFF LOTION

Trade 20/- dozen

Tax one-third

Retail 3/4 P.A.T.A.

Money Back  
Guarantee  
on every bottle!

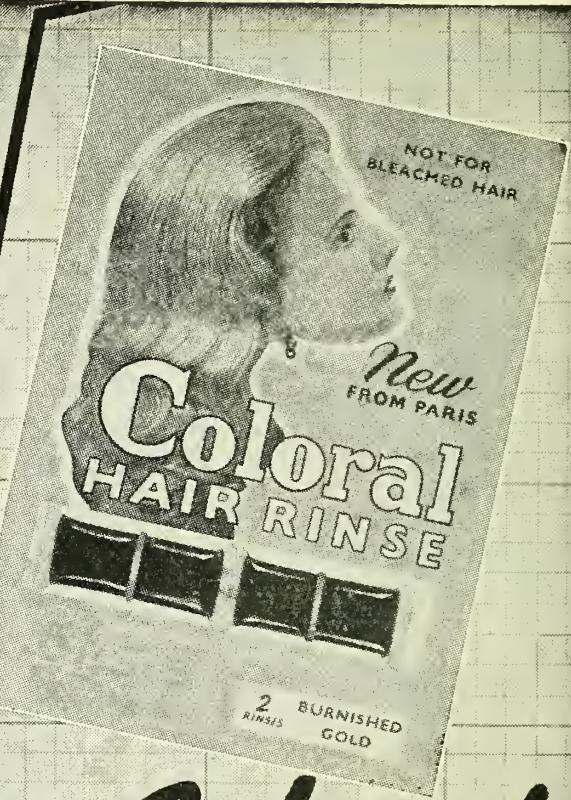
\* Sole Distributors to the Chemists' Trade—  
**THOS. CHRISTY & CO. LTD.**  
NORTH LANE, ALDERSHOT, HANTS.

Sole Agent for Eire—  
**A. W. MAGENNIS LTD.**  
65 MIDDLE ABBEY ST. DUBLIN

Sole makers and proprietors—  
**THE ILEX SUPPLY CO. LTD.**  
252b, GRAY'S INN RD., LONDON, W.C.1

**Chemists  
all over the  
country**

**Cash in on Coloral**



**Coloral** — the new French Hair Colour rinse, has achieved new sales records every month since its introduction to this country last June. It is now, beyond question, an *established success* and tens of thousands of women are *regular users*. If you are not stocking COLORAL you are missing a quick selling line which will bring you *ever increasing profits*. The attractive cards, each carrying two rinses, have only to be shown to sell. Get a stock from your wholesaler NOW!

Made in six shades—Burnished Gold, Auburn, Deep Brunette, Hazel Brown, Velvet Brown, Steel Blue.

*In attractive display outers each containing two dozen cards.*

# COLORAL

*Liquid*

## HAIR COLOUR-RINSE

Regularly advertised in the leading Women's Magazines and on London's Underground.

Packed and Distributed in Great Britain by  
**GOLDEN LIMITED • 2/4 DEAN STREET • LONDON • W.I GERRard 4924**



# The CHEMIST AND DRUGGIST

for RETAILER — WHOLESALER — MANUFACTURER

DECEMBER 6, 1952

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Strand, London."

Single copies 1/- each. Annual Subscription, which includes *The Chemist and Druggist Diary and Year Book*, £2

Volume CLVIII

## CONTENTS

No. 3798

<b>Antibiotics Fed to Pigs and Poultry</b>	764	<b>Internally Coated Tubes</b>	780
<b>Books, New</b>	784	<b>Legal Reports</b>	767
<b>Branch and Association Meetings</b>	774	<b>Local Dinners and Dances</b>	775
<b>Business Changes</b>	766	<b>Local Officers</b>	792
<b>Coming Events</b>	769	<b>Microbiological Techniques—6</b>	785
<b>Company News</b>	766	<b>New British Standards</b>	786
<b>Correspondence</b>	779	<b>P.A.T.A.</b> . . . . . <b>Supplement</b>	
<b>Deaths</b>	768	<b>Personalities</b>	769
<b>Deputation on Irish Health Service</b>	782	<b>Pharmaceutical Committees Confer</b>	772
<b>Editorial Articles:</b>		<b>Pharmaceutical Society of Northern Ireland: Council Meeting</b>	783
A Stocktaking and a Renewal of Confidence ..	777	<b>The Week in Parliament</b>	767
Markings on Imported Goods ..	777	<b>Topical Reflections</b>	765
Overseas Trade in October ..	778	<b>Trade Marks</b>	792
A New Rôle for Antibiotics ..	778	<b>Trade Notes</b>	770
<b>Ethics and Assistants: N.P.U. Lead</b>	771	<b>Trade Report</b>	787
<b>Guide to New Medicaments</b> ..	791	<b>Veterinary Fine Chemicals</b>	786

## NEWS OF THE WEEK

**Withdrawal of Authority.** — Authority to be in possession of and to supply Dangerous Drugs has been withdrawn from Joseph Henry Bentley, L.M.S.S.A. (registered address: Littlewick, Limpsfield, Surrey).

**Census of Chemical Trade.** — Volume "Chemicals and Allied Trades," of the report on the census of production for 1949, is to be published by H.M. Stationery Office, York House, Kingsway, London, W.C.2, on December 9, price 2s.

**Restored to Medical Register.** — At a meeting of the medical disciplinary committee of the General Medical Council held in London on November 26 it was decided that the name of Ralph Martin Case, Gillott Road, Edgbaston, Birmingham, should be restored to the medical register.

**Science Lectures for Juveniles.** — Dr. Sherwood Taylor (director, Science Museum) will give the 123rd course of Royal Institution Christmas lectures for juveniles at 21 Albemarle Street, London, W.1, at 3 p.m. on December 27 and 30

and January 1, 3, 6 and 8, 1953. The subject will be "How Science Has Grown." Subscription is: Juvenile (aged 10 to 17), £1; adult (non-members), £2.

**Charter Dinner-dance.** — Going through forty years of a card index that has been kept continuously since 1842 brought such a response that 460 attended a dinner-dance of the Square Association held on November 27 in celebration of the grant of a Charter to the School of Pharmacy, reconstituting under the University of London what was the Pharmaceutical Society's school. Mr. Norman Dewey proposed the toast of the Association, depurising for Mr. H. N. Linstead, whose parliamentary duties kept him at the House of Commons. Professor Berry responded from the chair. Dr. D. W. Logan (principal, University of London) proposed "The School of Pharmacy," pointing out that it was now an institution of full university rank. Mr. J. F. Essenhight (president of the Students' Union) replied. Dancing followed until midnight.

**Brewers' Exhibition.** — The Brewers' Exhibition, London, November 24-28, in-

cluded a number of items of pharmaceutical application. Among them were a new type of electric stopper and corks to work direct from a conveyor—shown by ALBRO FILLERS & ENGINEERING Co., LTD.; the Mole, a new type of apparatus for cleaning pipes and tubes, and a single-jet rinser for ampoules and vessels with small orifices by the THOMAS HILL ENGINEERING Co., LTD.; the Jeyes' automatic dispenser (JEYES SANITARY COMPOUNDS Co., LTD.), evolved under the auspices of the Institute of Brewing for use with Vantoc B germicide so that the correct amount of disinfectant or detergent is used; a new apparatus for sterilising liquids with ultra violet rays (CLOSEGATE TRADING Co., LTD.); laboratory filters by the METAFILTRATION Co., LTD.; and labelling machines by MORGAN FAIREST, LTD. Other exhibitors included the ARMSTRONG CORK Co., LTD.; BARNETT & FOSTER, LTD.; A. BOAKE, ROBERTS & Co., LTD.; BRITISH SACCHARIN SALES Co., LTD.; W. J. BUSH & Co., LTD., and THE DISTILLERS' Co., LTD.

**Guild Recruitment Plans.**—The serious situation that might face the Guild of Public Pharmacists if members were struck off for not paying their subscriptions, and if membership losses were not made good by recruitment, was discussed by the council at its meeting on November 22. The decision was taken to cut out all but essential expenditure, and to ask members to appeal to hospital pharmacists locally to enrol as Guild members. It was mentioned that a new membership application form, combining a statement of the aims and objects of the Guild, was now available from the registrar. Members living in areas where there were schools of pharmacy or university pharmaceutical departments were also asked to try and get the principals to encourage newly qualified pharmacists to enter hospital departments. At the invitation of council, Mr. Grainger then gave an account of his visit to the United States and Canada. He said that the origin of the American Hospital Pharmacists' Association lay in the interest shown when Mr. Herbert Skinner, at the time of his visit to the United States some years ago, mentioned the work of the Guild of Public Pharmacists in England. A plan had been worked out for assessing the efficiency of a department under a number of main headings, the sub-headings of which were awarded points. Adding the points gave a percentage index to the efficiency of a department. The Council were promised the scheme for study.

## NEWS IN BRIEF

**Influenza Specialists Meet.**—The Expert Committee on Influenza of the World Health Organisation held its first session in Geneva recently.

**Titanium Pilot Plants.**—Imperial Chemical Industries, Ltd. have carried out a three-year research and development programme for the manufacture of titanium.

**Travellers' Benevolent Institution.**—The annual court of governors of the Commercial Travellers' Benevolent Institution will be held at the Berners Hotel, Berner Street, London, W.1, on December 29. A standing candidates will be recommended by the Board for election without ballot for the seventy-first successive time.

**Retail Trade in September.**—Board of Trade figures show that for large retailers values of sales of chemists' goods in September were 6 per cent. lower than in August and 4 per cent. higher than in September 1951. Figures for independent retailers were 12 per cent. lower and 1 per cent. higher respectively.

## LOCAL NEWS

**Plant Breeding Institute.**—The Plant Breeding Institute, School of Agriculture, Cambridge University, has recently been constituted as an independent research institute.

**Manchester Analyst's Report.**—Of 130 samples of drugs examined by the Manchester public analyst in 1951, only two were unsatisfactory; they were a bottle of 5-gr. aspirin tablets erroneously labelled tab. aspirin co., B.P.C., and a sample of camphorated oil 11.5 per cent. deficient in camphor.

**£35,000 Building Licence.**—Plymouth Reconstruction Committee was informed at its meeting on November 17 that the Ministry of Works had sanctioned the issue of a £35,000 building licence for a new shop for Timothy Whites & Taylors, Ltd., at the top of Old Town Street and New Cornwall Street, Plymouth.

**Toilet Containers Investigated.**—The annual report of the chief inspector of weights and measures for Kent, published recently, gives details of investigations into the capacities of toilet preparation containers. One jar tested, with an external diameter of 4.6 cm., was found to have an inside measurement of 2.6 cm. which tapered away to 1.5 cm. at the base.

Other jars had similarly thick walls and bottles had panels that reduced their capacity. The inspector suggests that the apparent size of the jar as seen in the shops influenced the purchaser in making a choice and that if all containers bore a statement of the contents the public would be able to make fairer comparisons.

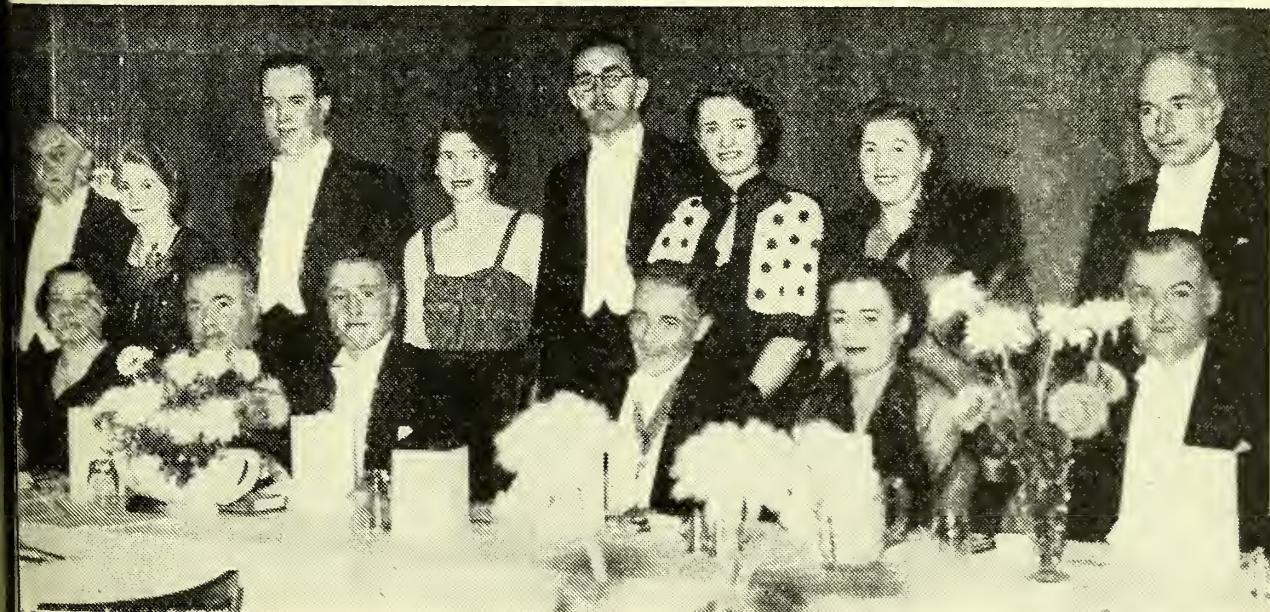
## SCOTTISH NEWS

**Fluorinised Water on Trial.**—Under a plan announced recently, a reservoir serving half the population of Kilmarnock, Ayrshire, is having fluorine added to it. School children are being dentally examined before the scheme begins and then divided into test and control groups depending upon where they live.

**Helping the National Economy.**—When Dr. E. J. Holder (Duncan Flockhart & Co., Ltd.) addressed Dunfermline, Fife, Chamber of commerce recently, he said that only 25 per cent. of Britain's output came from the large "household name" companies. There were some 200,000 companies with ten or less workers; a small percentage improvement in each could give a major national improvement. Employees needed to remember that they must give full value in return for their freely negotiated wages. They had to keep their bargains as had the employer. He believed in joint advisory committees and co-operation of all in industry.

**Importance of Chemical Engineering.**—The establishment of a separate department of chemical engineering at Glasgow Royal Technical College was urged by Sir Ian Heilbron (chairman of the Advisory Council for Scientific and Industrial Research), on November 24, at the college, when he opened a new organic chemistry research laboratory which bears his name. The existing facilities for chemical engineering in industry, universities, and colleges, he said, were inadequate. He believed that the lack of them explained to a large degree why so many of the outstanding discoveries made by British scientists were left to foreigners to develop. A great deal was said today about the necessity for a new technological university, but it was his belief that Britain already had the essentials of such an institution in the technical colleges. The new laboratory has been erected to replace one destroyed by fire last year.

**Surgery and Pharmacy in Edinburgh.**—At the annual dinner of the Edinburgh and South-east Scottish Branch of the Pharmaceutical Society, held in Edinburgh on November 26, Mr. John Bruce, C.B.E., F.R.C.S., proposed "The Pharmaceutical Society of Great Britain." He said that the surgeons were one of the oldest guilds in the city. In 1640 they admitted two apothecaries to the guild and from that date surgery and pharmacy first began their association in the city. At one time,



Top-table personalities at the dinner-dance of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society, Edinburgh, November 26. Front: Mrs. F. Hepburn, Messrs. John Bruce, F. Hepburn and H. T. Thomas, Mrs. J. Bruce and Mr. R. M. McCrone; Rear: Mr. and Mrs. Eric Knott, Mr. J. B. Rosset, Mrs. MacMorran, Mr. F. J. D. McDougall, Mrs. Grosset and Mrs. and Mr. C. G. Drummond.

in 1657, they joined forces, and the pharmacists, with that sense of responsibility which had always characterised their profession, put education in the forefront of their programme. They also claimed the right to examine all those who practised pharmacy and examine their premises within the city. The amity between the bodies did not last long, and in 1680 they went their separate ways. Their last serious impact was in 1839, when the Royal College of Surgeons thought it necessary to oppose a proposal by the druggists that the hours of closing should be 9 p.m. during the week and during the hours of Divine Service on Sundays. The surgeons demanded access to drugs at all hours of the day and night, Sunday included. He was happy to say the surgeons lost, and an amicable settlement was reached. The Pharmaceutical Society in its development had been wiser than the surgeons, having gathered into its own hands the important functions of education, examination, discipline and scientific activity. Mr. R. M. McCrone proposed the toast of the Branch, and Mr. F. Hepburn (chairman), replying, said that if they could get 70 per cent. of members attending branch meetings, the Branch

## ANTIBIOTICS FED TO PIGS AND POULTRY

THE Agricultural Research Council, in a preliminary report recently issued on investigations into the use of antibiotics in pig feeding, states that, if the present trend of results continues until the end of December, when the experiments will be concluded, the Council should be able to recommend officially the use of penicillin and aureomycin in the diet of fattening pigs. As the freeing of the supply of antibiotics for that purpose would require an amendment of the Penicillin Act, the Council has kept the appropriate Government Departments informed of the progress of the experiments.

The trials have been conducted with the help of the Council's Field Station, Compton, Berks; the National Institute for Research in Dairying, Shinfield, Berks; two of the Experimental Husbandry Farms of the Ministry of Agriculture and Fisheries; and other centres. The experiments were designed to investigate the effect of penicillin and aureomycin under controlled conditions on the growth of pigs receiving either a purely vegetable diet or a mainly vegetable diet containing a percentage of fish meal. The results already indicate that under the experimental con-

would be playing its part and could have something worth while. Mr. F. J. McDougall, M.P.S., proposed "Our Guests," Dr. G. H. Macmorran replying

## IRISH NEWS

**Belfast Presentation.** — The directors and clerical staff of Fred Storey, Ltd, wholesale chemists and druggists, Belfast, at a ceremony recently, presented a travelling clock and a gift of notes to Miss Dol Hudson, an employee of the firm who is leaving for Canada. The presentation was made by Captain J. W. Storey (secretary) and tributes were paid by Mr. Fred Storey (managing director) and Mr. F. J. Storey.

**Northern Ireland Benevolent Fund.** — At a meeting of the committee of the Northern Ireland Chemists' Benevolent Fund in Belfast on November 24 it was reported that the appeal by the president of the Pharmaceutical Society of Northern Ireland had brought in £290. plus £2 6s. 3d. from the president's "at home" on November 17. Further donations would be welcomed. Grants were made to pharmaceutical chemist and to the widow of a pharmaceutical chemist.

## ANTIBIOTICS FED TO PIGS AND POULTRY

ditions the addition of either antibiotic to either dietary will shorten by about ten per cent. the time taken to reach bacon weight, and will improve by about 5 per cent. the efficiency of "food conversion [the amount of food consumed per lb. liveweight gain]. Pigs fed on a pure vegetable diet responded better than the others. The Medical Research Council has advised the A.R.C. that the addition of penicillin to the diet of pigs entails no risk to human beings who consume the pork meat and that there is no serious danger of strains of pathogenic organisms resistant to penicillin being developed in the pigs.

Experiments are in hand and planned from which the A.R.C. hopes to obtain more precise information about the optimum dosage level of penicillin and the period in a pig's life at which the maximum response may be expected. The Council is also arranging to test the effect of terramycin on growth. A report on the quality of the meat produced in the tests is among the results awaited. Supplies of antibiotics, etc., for the experiments were given by the Distillers Co. (Biochemicals Ltd., Glaxo Laboratories, Ltd., Leder Laboratories, and Pfizer, Ltd.

## TOPICAL REFLECTIONS

### Southampton Area Conference

On both the two principal topics discussed at the Southampton area Conference of Pharmaceutical Society's branches last month (pp. 740-41) there were pointed comments. Such discussions are useful. They focus opinions which, without a contact of this kind, may remain vague; and, given a reasonably good attendance, they indicate the balance of conviction in a sizeable area. It is evident that anxiety about the phrasing of the Council's draft revised statement on matters of professional conduct continues. The emendations adopted at this conference should be seriously studied by the Society's Council. One remark made during the discussion calls for analysis. A member said that pharmacy was not a profession, and "it was silly to try to persuade the public that it was." An obvious comment on this statement is that the public are not likely to care two straws which definition is given. But we may discriminate. We may fairly say that pharmacy in either a hospital or a laboratory is a profession; pharmacy in a shop is a profession within a trade—a department or constituent of a trade. Businesses where dispensing is the sole occupation ("prescription pharmacies") are few, and are likely to remain so. If any statement on matters of professional conduct forbids a chemist in retail business to make a pre-Christmas show of perfumery, that statement will be vetoed and ignored in practice. The second topic discussed at Southampton, the future of pharmacy technicians, brought the difference of opinion noticed in previous reports of a similar nature. There is something to be said, in the abstract, for taking a census of dispensers; but I suggest that the time for doing that has gone by.

### Business Hours

At two recent meetings of pharmaceutical associations (p. 742) resolutions have been passed deprecating (or deplored) the idea of extending the hours of retail business. It is to be hoped that retail chemists will stand firm on this important matter. The education of shoppers has, with the closing of Parliament, brought about earlier closing than seemed possible fifty years ago. Admittedly the new rule is permissive, not mandatory; but careless experimenting with longer hours of daily opening might lead to a return to conditions now regarded as almost prehistoric. At a meeting of the British Pharmaceutical

Conference in 1866, Mr. Michael Carteighe, afterwards president of the Pharmaceutical Society, remarked that the hours of business then customary—not specified in the report—were unnecessarily long. Twenty-six years earlier, letters appeared in "The Chemist" setting forth grievances in this respect in various parts of the country. The worst of three examples (quoted in the C. & D., 1946.II.245) came from Chelsea, where the daily routine began at 7 a.m. and ended at 11 p.m., with an extension to midnight on Saturdays. In 1847 a society called The Chemists' and Druggists' Early-closing Association was formed in London: for some reason or reasons it soon faded out.

### A Pharmacological Allusion

A footnote to an article in the November "Contemporary Review" set me searching. As is generally known, William Cowper referred, in "The Task," to cups (of tea) "that cheer but not inebriate." He has often been credited with originating the contrast between the two processes. But about forty years earlier George Berkeley, Bishop of Cloyne, used an almost identical expression in "Siris," a book that I read some years ago (with, it appears, insufficient attention). The point about Berkeley's phrase is that it has a pharmacological aspect. I need hardly mention that this author was the famous advocate of the use of tar water, a product sensationally popular for a few years. In 1744 he issued "A Chain of Philosophical Reflexions and Inquiries Concerning the Virtues of Tar-Water, and divers other Subjects . . ."; the word "Siris" was added to the title in the second edition. Here is the sentence as cited in the Oxford English Dictionary: "The luminous spirit lodged in the native balsam of pines . . . is of a nature so mild . . . as to warm without heating, to cheer but not inebriate." Berkeley had picked up the idea of the solution in the course of missionary work among American Indians: he supported his thesis with quotations from Plato, Pliny, Boerhaave and other authors, and by his use of analogy commended his tar water as a remedy for a comprehensive list of diseases. For a time everyone in the United Kingdom, from castle to cottage, seemed to be either making this preparation or watching someone else doing so. One London newspaper in 1744 contained five advertisements extolling the virtues of tar water.

Xrayser

## COMPANY NEWS

P. P. PAYNE & SONS, LTD.—Mr. A. E. Smith was appointed deputy chairman and deputy managing director to Mr. J. E. Payne on December 2.

MONSANTO CHEMICAL Co., St. Louis, U.S.A., have formed a new jointly-owned French company in association with Compagnies Réunies des Glaces et Verres Speciaux de la France.

SAVORY & MOORE, LTD.—Consolidated trading balance to March 31 was £215,918 (against £192,792 in the previous year). Net profit of parent company, £118,738 (£109,020). Ordinary dividend, 10 per cent. (nil). Consolidated current assets, £1,292,250 (£1,181,248).

A. BOAKE, ROBERTS & Co., LTD.—Payment of a dividend on £475,000 ordinary stock has been deferred until the accounts for year ending March 31, 1953, are available. Sales are stated to have declined during the past three months and the fall in prices of raw materials is likely to involve the company in stock losses.

CHEMISTS MUTUAL INSURANCE Co., LTD.—Membership during the year ended September 30 increased and premium income was higher in all departments. Claims were heavier under fire insurances amounting to just over half the premium income after reinsurance. Burglary claims were relatively high, losses from window displays still figuring prominently in that section. Market value of investments held depreciated £7,860 and as the contingency reserve was liquidated by a similar variation in the previous year it was necessary to draw on the profit and loss account. Balance carried forward is £18,050 (against £17,866).

### New Companies

W. E. GIBSON, LTD. (P.C.) — Capital £5,000. To carry on the business of manufacturers of and dealers in chemicals, gases, drugs, etc. John E. Evans and William E. Gibson, M.P.S., directors. R.O.: 21 High Street, Green St. Green, Farnborough, Kent.

WYNLIT LABORATORIES, LTD. (P.C.)—Capital £100. To carry on the business of chemists, druggists, drysalters, etc. Boris Litwin, Carl Norman, M.P.S., Basil B. Joseph and Donald J. Muskett, directors. R.O.: 229 Kensington High Street, London, W.8.

SKELTONS (THE CHEMISTS), LTD. (P.C.)—Capital £2,000. To carry on the

business of wholesale or retail chemists, etc. Frank W. V. Skelton, M.P.S., David F. Skelton and Barbara I. Skelton, directors. R.O.: 7 Market Street, Bedworth, Warwicks.

KING & NORRIS, LTD. (P.C.)—Capital £200. To apply for or acquire any patents, and to carry on the business of mechanical engineers, manufacturers of surgical, hospital, laboratory and scientific furniture, etc. Derek A. Povey and Terence B. Jenkins, subscribers. Solicitors: Mawby Barrie & Letts, 62 Moorgate, London, E.C.2.

### Voluntary Liquidations

GORDON SMITH (CHEMISTS), LTD., dispensing chemists, 203 Ashley Road, Hale, Ches. Liquidator: Mr. L. F. Allen (of the same address).

MODERN PHARMACALS, LTD., wholesale druggists, 11 Guildford Street, London, W.C.1. Liquidator: Mr. R. F. Cox, 3 Raymond Buildings, Gray's Inn, London, W.C.1.

### BUSINESS CHANGES

THE head office of Distra (Distributions Aktiebolaget Kemiska Produkter) has removed to Malmgårdsvägen 63, Stockholm Sö; cable address, Distra, Stockholm, Sweden. The office at Göteborg remains as a branch.

BOOTS, LTD., opened a new four-story branch at the corner of Oxford Street and Princess Way, Swansea, Glam., on November 15. The new branch replaces and stands almost on the site of one destroyed by enemy action in 1941.

### Appointments

HENDERSON BROS. & Co., LTD. (manufacturers of Hygex brushes). Pallion Estate, Sunderland, have appointed Mr. E. Leigh Davis their general sales manager.

MEGGESON & Co., LTD., Llewellyn Street, London, S.E.16, have appointed Mr. L. R. V. Hodges their representative in Wales and Monmouthshire and in Hereford, Worcs, Shropshire and Staffs.

GENATOSAN, LTD., Loughborough, Leics, have appointed Mr. H. A. E. Spalding their Southern area field manager; Mr. A. H. Orme their trade representative in the Dorset, Hampshire and West Sussex territory; and Mr. C. E. Frost their trade representative in the North-west England area.

## THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

THE question of purchase tax on Coronation souvenirs was raised on November 27 by MR. J. M. C. HIGGS, who asked the Chancellor of the Exchequer so to modify the conditions of the tax that articles which were not normally subject to tax or were taxed at a lower rate did not become liable to tax or to tax at a higher rate merely because they were ornamented as souvenirs.

MR. J. A. BOYD-CARPENTER (Financial Secretary to the Treasury) replied: The general principle of the purchase tax law in question is, I think, sound. I am considering a particular case which you have sent to me.

### Export Incentives

MR. R. MAUDLING (Economic Secretary to the Treasury) told MR. L. P. CARR on November 27 that the Treasury had received the views of various trade and national associations on the subject of special ex-

port incentives. The expressions of opinion put forward were being considered.

### Hearing Aids Cost

MR. IAIN MACLEOD (Minister of Health) told MR. W. J. FIELD on November 27 that the average cost of new Medresco hearing aids supplied under the National Health Service up to June was £3 11s. 6d. That did not include the costs of batteries or of distribution and other overheads as those figures were not available.

### Stomach Ulceration Research

MR. IAIN MACLEOD told BRIGADIER F. MEDLICOTT on November 27 that evidence seemed to be that the incidence of peptic ulcer had not increased recently and that that of stomach ulceration was decreasing. Deaths from peptic ulceration had decreased in recent years. Research into causes and treatment was in progress in many centres.

## LEGAL REPORTS

**Unauthorised Possession.**—At Birkenhead, on November 19, William Benson, an unemployed seaman, was fined £50 for being in possession of 35 gm. of opium, £25 on another charge of possessing 1 gm. of opium, and £25 for being in possession of utensils for the use of opium. He pleaded guilty. A police inspector stated that Benson owned premises which he rented to Chinese seamen.

**No Penalty Merited.**—“We have come to the conclusion that nothing has been done which merits a penalty,” said the stipendiary magistrate at Aberdare, recently, dismissing on payment of costs charges against Mrs. L. I. Andrews, Lewis Street, Aberaman, of selling poisons when unauthorised and of illegally using the name “dispensing chemist.” The solicitor for the Pharmaceutical Society, who initiated the prosecution, said that Mrs. Andrews was the owner of a drug store business in Aberaman, which was visited in September by an agent of the Society. The agent was supplied with a tube of Veganin. There was a notice “dispensing chemist,” in the window, which she was not entitled to display. Defending solicitor said that Mrs. Andrews was the wife of a well-known chemist who ran a chemist’s shop some 200 yards from the drug

store. Mrs. Andrews’s shop had been supervised by a qualified chemist, who left in May. Mr. Andrews had taken steps to clear all the classified poisons from the shop, had informed the Pharmaceutical Society of the fact, and had covered up the sign in the window. However, the Veganin tablets had been overlooked, and an assistant, in changing the shop window, must have uncovered the “dispensing chemist” sign. Mrs. Andrews was ordered to pay £2 2s. to pay advocate’s fee on each summons.

**Prescription Forgery Fine.**—At Halifax magistrates’ court on November 14, Harry Todd, a labourer, was charged with obtaining cod-liver oil and malt by means of a forged prescription. He pleaded guilty to two charges, and asked for three other instances to be taken into consideration. The charge was that Todd had been given a prescription by his doctor for 2 lb. of cod-liver oil and malt, but had altered the quantity to 6 lb. Some weeks earlier he had altered a prescription for 1 lb. to 4 lb. It was urged in his defence that he had done so not maliciously but to save repeated calls on his doctor for prescriptions. He was fined £2 on each of the two charges, the other offences being taken into consideration.

## DEATHS

**AUSTEN.**—On November 29, Mr. John Austen, Ph.C. (chairman and formerly managing director of G. T. W. News-holme, Ltd., High Street, Sheffield), aged eighty-three. Originally a farmer in Sussex, Mr. Austen went to Sheffield in 1888. Transferring his interests to pharmacy, he qualified as a chemist and druggist in 1892 and passing the Pharmaceutical Chemist examination seven years later. He was a past president of the former Pharmaceutical and Chemical Society of Sheffield, of the Sheffield Literary and Philosophical Society, and of the Sheffield Microscopical Society. He was a founder member of the local Hunter Archaeological Society and Rotary Club. Mr. Austen had been associated with Messrs. News-holmes for fifty-nine years before retiring from the managing directorship of the company in 1947.

*Mr. S. Durham* writes: Mr. John Austen was the doyen and the most universally respected and esteemed of Sheffield pharmacists. From him all who were working for the good of pharmacy, either locally or nationally, could rely on receiving encouragement and advice based on sincerity and long experience. One of the kindest of nature's gentlemen, he will long be remembered by those who were privileged to know him.

**HACKFORTH.**—At his home near Haywards Heath, Sussex, on December 1, Mr. Edgar Hackforth, C.B. (formerly Controller of Health Insurance in the Ministry of Health), aged seventy-four. He joined the staff of the National Health Insurance Commission in 1912 shortly after it was formed, and in 1919, on the formation of the Ministry of Health, was appointed Deputy Controller of Health Insurance. He remained in that post until his promotion to Controller in 1937. He retired in 1941.

**HOBBIS.**—Recently, Mr. George Thomas Hobbis, M.P.S., 10 Oxford Road, Canterbury, aged seventy-six. Mr. Hobbis qualified in 1905 and worked at first as an assistant to Mr. Charles Bing, St. George's Street, Canterbury, subsequently becoming manager for Boots, Ltd., with whom he remained in Canterbury until his retirement ten years ago. He carried on locum work for chemists in Kent up to the time of his death.

**LINSTEAD.**—At a Putney, London, nursing home on November 27, Mrs. Florence Evelyn Linstead (widow of the late Mr.

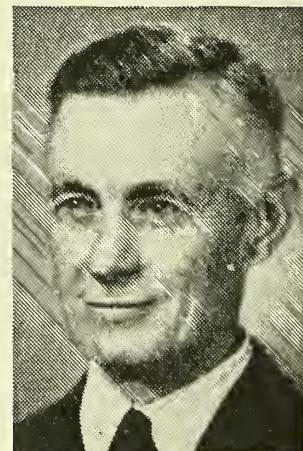
Edward Flatman Linstead, Ph.C., and mother of Mr. H. N. Linstead, O.B.E. Ph.C., M.P., a secretary of the Pharmaceutical Society).

**MANN.**—On November 23, Mr. Arthur Weller Mann, M.P.S.I. (proprietor of the City Hall Pharmacy, Donegal Square North Belfast). Qualifying with the Pharmaceutical Society of Ireland (of which he was a life member) in 1896, Mr. Mann was a first in practice in Lurgan. About thirty years ago he acquired the Belfast business bearing his name, formerly styled Boy & Co. Mr. Mann had been secretary and treasurer of the St. John Ambulance Brigade in Northern Ireland since 1939. He was appointed a Commander of the Venerable Order of St. John of Jerusalem in 1941.

**ST. ALPHONSE.**—In hospital in Montreal, Canada, on November 23, Mr. Montgomery St. Alphonse (a director of W. J. Bush & Co., Ltd. (Canada)). A grandson of the founder of W. J. Bush & Co., Ltd., London, Mr. St. Alphonse had served the organisation for fifty years. He was treasurer of the Canadian company from 1920 until ill-health forced him to relinquish the post in 1949 and during that time was responsible for the company's general management. In 1942 he was appointed a director of the parent company and also of Bush Incorporated.

*A colleague* writes: The untimely passing of Mr. St. Alphonse deprives the company not only of a valued servant but also of a friend who commanded the affectionate regard of all who were associated with him in the conduct of the business.

**SYKES.**—On November 29, Mr. Richard Sykes, M.P.S., 390 Bradley Road, Huddersfield, aged sixty-nine. Mr. Sykes qualified in 1905 and up to the time of his death took an active part in Henry Sykes & Son (Chemists), Ltd., Moldgreen, Huddersfield, a company founded by his father in 1877.



## COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

### Monday, December 8

MANCHESTER BRANCH, GUILD OF PUBLIC PHARMACISTS, Engineers' club, Albert Square, Manchester, at 7 p.m. Film show by courtesy of Imperial Chemical (Pharmaceuticals), Ltd.

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Playhouse theatre (afterwards Royal restaurant, Hanover Street), Liverpool, at 7 p.m. Theatre-supper party.

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, the Unicorn, Gidea Park, Romford, at 7.30 p.m. Talk and demonstration on the use of cosmetics by a representative of Yardley & Co., Ltd.

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon Hotel, Southampton, at 7.30 p.m. "Any Questions."

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, the library, Beckenham, Kent, at 8 p.m. A representative of Richard Hudnut, Ltd., on "Fashion and Care of the Hair" with a demonstration of home permanent waving.

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, Dorset café, Ocean Road, South Shields, at 7.30 p.m. Mr. F. H. Oliver (Sunderland Technical College) presenting a "Film Evening."

### Tuesday, December 9

BOLTON PHARMACEUTICAL ASSOCIATION, Reform Club, Bowker's Row, Bolton, at 7.30 p.m. Film show: "Touring in Europe."

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Angel Hotel, High Road, Ilford, Essex, at 8 p.m. Mr. H. E. Dale (medical information department, Boots, Ltd.) on "Chemotherapy of Malignant Diseases."

HOUNSLAW BRANCH, PHARMACEUTICAL SOCIETY, Sun Hotel, Hanworth Road, Hounslow, Middlesex, at 8 p.m. Mr. H. G. Moss on "A Trip to the U.S.A."

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Medico-Chirurgical hall, 64 St. James' Street, Nottingham, at 7.30 p.m. Mr. J. A. Wakelam (Distillers Co. (Biochemicals), Ltd.) on "Micro-organisms and Nutrition."

RESTON BRANCH, PHARMACEUTICAL SOCIETY, Bull and Royal Hotel, Preston, at 7.45 p.m. Mr. A. A'dington on "Pharmacy, Photography and You."

### Wednesday, December 10

COVENTRY AND WARWICKSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Masonic Hall, Little Park Street, Coventry, at 7.30 p.m. Annual dinner and dance.

EXETER BRANCH, PHARMACEUTICAL SOCIETY, Imperial Hotel, Barnstaple, at 7.30 p.m. Dr. J. M. Rowson (curator of the Society's museum) on "The Work of the Museum Department."

LASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Institute of Chartered Accountants of Scotland, 220 St. Vincent Street, Glasgow, at 7.30 p.m. Exhibition of sound films by Mr. J. O. Dawson (Ethicon Suture Laboratories, Ltd.).

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Mansion Hotel, Roundhay, at 8 p.m. Annual dinner.

YMPOUTH BRANCH, PHARMACEUTICAL SOCIETY, Duke of Cornwall Hotel, Plymouth, at 7 for 7.30 p.m. Annual dinner and dance.

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, the Unicorn, Gidea Park, Romford, at 7.30 p.m. Christmas party.

### Thursday, December 11

BIRMINGHAM BRANCH, GUILD OF DISPENSERS, Grand Hotel, Birmingham, at 7.30 p.m. Meeting.

DUNDEE BRANCH, PHARMACEUTICAL SOCIETY, Mather's Hotel, Dundee, at 7.30 p.m. Address on "Spiders' Hunting Methods."

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Fuller's café, Parliament Street, Harrogate, at 8 p.m. Dr. G. R. Boyes (head of the medical department, Allen & Hanburys, Ltd.) on "Antibiotics and Chemotherapy."

JUNIOR BRANCH, MANCHESTER PHARMACEUTICAL ASSOCIATION, Council chamber, Houldsworth Hall, Manchester, at 7.30 p.m. Whist drive.

SUNDERLAND BRANCH, PHARMACEUTICAL SOCIETY, Sunderland Technical College, at 7.30 p.m. Film "Chloromycetin" (by courtesy of Parke, Davis & Co., Ltd.) and Mr. C. Beaven on "The Rational Basis of Antibiotic Therapy."

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Metropole Hotel, Leeds, at 7.30 p.m. Discussion on Draft Revised Statement on Matters of Professional Conduct.

JUNIOR BRANCH, WEST MIDDLESEX BRANCH, PHARMACEUTICAL SOCIETY, Acton Town Hall, London, W.3, at 7.30 p.m. Mr. A. Sterling (chief pharmacist, St. George's Hospital) on "Hospital Pharmacy as a Career."

## PERSONALITIES

MR. JAMES FINLAY, M.P.S., Edinburgh, an original member of the Edinburgh Chemists' Golf Club (founded in 1897) was presented at the club's annual dinner recently with the club's golf championship award by Councillor J. G. Dunbar.

MR. WALTER J. WEBB, Ph.C. (manager of Burroughs Wellcome & Co.'s Dublin office) has just completed a very successful year as captain of the Foxrock Golf Club. During his captaincy the Irish Chemists' Golfing Society paid their first visit to the club.

MR. A. E. SMITH, whose advancement with P. P. Payne & Sons, Ltd., is announced on p. 766, joined the company in 1920 as representative for

Wales and the west of England. He was transferred to the London office in 1930 and two years later was appointed a director. He also became a director of the company's associated houses in Canada, South Africa and Australia.



## TRADE NOTES

**Discontinued.** — Glaxo Laboratories, Ltd., Greenford, Middlesex, announce that all packs of Ethamolin were discontinued on December 1.

**Source of Supply.** — Cerumol ear drops are made by LABORATORIES FOR APPLIED BIOLOGY, LTD., 91 Amhurst Park, London, N.16, and distributed by TAMPAX, LTD., 110 Jermyn Street, London, S.W.1 [corrected note].

**Tooth-powder with Chlorophyll.** — A chlorophyll-containing variant to Eucryl white tooth-powder is now offered on bonus terms by Eucryl, Ltd., Shirley, Southampton, who also announce the issue of a new display casket for the white powder.

**Relief of Spasmodic Cough.** — Sandoz Products, Ltd., 134 Wigmore Street, London, W.1, offer in Ipecopan an association of alkaloids of ipecacuanha and opium for loosening bronchial secretion and exerting a sedative action on the cough centre. Ipecopan is issued as malted tablets or as an oral solution.

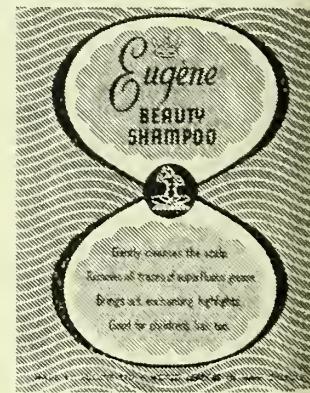
**Ingenious and Convenient Packs.** — Canker lotion in a capsule for easy application to dogs' and cats' ears without risk of cross infection, and canker powder in a puffer tin, are amenities provided by A. F. Sherley & Co., Ltd., Great West Road, Brentford, Middlesex, to assist chemists to make satisfied customers of dog and cat lovers.

**Tablets Replace Capsules.** — E. R. SQUIBB & SONS, 17 Old Bond Street, London, W.1, announce that from December 15 Pronestyl capsules will be replaced by Pronestyl tablets. The content of cocaine amide hydrochloride remains unaltered at 0.25 gm., but the modification has enabled the company to effect marked reductions in the price of the product.—VITAMINS, LTD., Upper Mall, London, W.6, announce that Befortiss B-complex capsules have been discontinued in favour of tablets, with no change in potency or price. The company also announces the introduction of Befortiss tablets, concentrated, which provide vitamin B<sub>12</sub> in addition to the usual factors of the B complex. Each tablet contains vitamin B<sub>1</sub>, 5 mgm.; niacinamide, 15 mgm.; riboflavin, 5 mgm.; vitamin B<sub>12</sub>, 2 microgm.; vitamin B<sub>6</sub>, 2 mgm. The tablets are issued in a range of packs containing respectively twenty-five, 100, 500 and 1,000.

## NEW PRODUCTS AND PACKS

**Oral Penicillin Tablets.** — Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Ashton-under-Lyne, have made available, in tube of ten and bottle of 100, oral penicillin tablets each containing 500,000 international units.

**Beauty Shampoo.** — Eugene, Ltd., Crown House, Regent Street, London, W.1, have introduced Eugene beauty shampoo packed in a pale blue and pink envelope of distinctive design. Messrs. Eugene state that display outers of forty-eight packets will be available shortly to retailers stocking the shampoo.



**Polyethylene Sponge.** — Herts Pharmaceuticals, Ltd., Welwyn Garden City, announce that Polystan brand non-absorbable polyethylene sponge, an inert filling material for extrapleural pneumothorax and pneumonectomy, is now available. Full details and prices can be obtained from the company.

**Parkinsonism Treatment Elixir.** — On December 1, Lederle Laboratories Division of Cyanamid Products, Ltd., Bush House, London, W.C.2, made available in 16-oz. bottles an elixir of Artane brand trihexiphenixyl (3-(1-piperidyl)-1-phenyl-1-cyclo-hexyl-1-propanol hydrochloride), 2 mgm. per teaspoonful. The elixir presents that potent antispasmodic in a palatable liquid form for the treatment of all forms of parkinsonism.

**Relief in the Common Cold.** — Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, have introduced Vasylox brand solution of methoxamine hydrochloride for intranasal use. Vasylox contains 0.25 per cent. of the active constituent. It is claimed effective for the relief of nasal congestion, and to give rapid and long-lasting relief in the common cold and in most types of rhinitis. It does not stimulate the central nervous system and therefore produces neither restlessness nor insomnia. Vasylox is issued in screw-cap bottle containing  $\frac{1}{2}$  fl. oz., with separate dropper, and it may be applied to the nasal tissues by means of a dropper or by an atomiser.

# ETHICS AND ASSISTANTS : AN N.P.U. LEAD

## Professional Conduct

THE Executive Committee of the National Pharmaceutical Union has authorised publication of a statement of its collective opinion on the Pharmaceutical Society's Draft Revised Statement on Matters of Professional Conduct. The statement is not put out as having the unanimous support of all members of the Executive.

The memorandum says that the Executive has considered the Statement issued by the Council of the Pharmaceutical Society in July 1952 as a basis for discussion, has examined carefully the principles on which the draft Statement appears to be based and the terms of each of its twenty-five clauses, and considers that any such code should conform to the principles:—

- (i) That the rules should be strictly confined to matters of professional conduct, bearing in mind that a breach may be treated as "misconduct" carrying with it the sanctions applicable under s.7 of the Pharmacy and Poisons Act, 1933.
- (ii) That the rules should be stated with the utmost clarity and in the form of specific requirements or prohibitions rather than as general exhortations.
- (iii) That the rules should not seek to impose obligations with which it may be impracticable for members to comply.

### Offends against Principles

The Executive considers that the draft Statement offends against all of those basic principles. Whilst it is true that the preamble states that the Council, in considering whether disciplinary action shall be taken, will not treat all the rules as being of equal importance, a member of the Society has no means of knowing in advance which of the rules may be treated as trivial and which may actually form the subject of disciplinary action. Though, too, it has been suggested that "persuasion" will be the means used by the Council to secure adherence to the rules, the Executive does not accept that as being a satisfactory basis on which to frame a code, some parts of which at least are, by common consent, directly susceptible to Statutory Committee sanction. The draft Statement moreover deals with subjects that are not matters of professional conduct but matters of commercial practice.

It is self-evident that certain of the rules are framed in non-specific terms, the meaning and significance of which would be a matter of opinion. There would be no criteria by which their meaning and significance could be judged by those expected to conform to the rules until, by decisions of the Statutory Committee on the facts of particular cases, a body of "case law" had been built up. Certain of the proposed rules are mere verbiage.

The third principle is offended by those parts of the draft which deal with matters of commercial practice.

The Executive now proposes to seek discussions with the Society's Council.

### Pharmacy Assistants

The Executive has also considered the proposals by the Council of the Society on "Pharmacy Assistants." Though of opinion that circumstances do not make it essential that any action on the lines proposed should be taken so far as retail pharmacy is concerned, the Executive is satisfied that some action on the lines outlined by the Council may well be essential so far as hospital pharmacy is concerned. If action is taken on the hospital side, then the Executive Committee sees nothing objectionable in that action being applicable also to retail pharmacy, so long as it is permissive and not mandatory. The opinion of the Executive is summed up in the following resolutions adopted at a meeting on November 26:—

1. That provision should be made for "pharmacy assistants" to be trained on a practical basis.
2. That there should be an examination to assess their competence.
3. That employment in a retail pharmacy as a pharmacy assistant should not be contingent on the person having undergone the specified training.
4. That the training should be regulated by and the examination controlled but not carried out by the Pharmaceutical Society.
5. That the principle that assistants should be controlled and supervised by the Society is not acceptable.
6. That the Pharmaceutical Society should not put itself in a position where, by virtue of the issue of a certificate of competence, it becomes responsible, expressly or by implication, for the welfare of those securing the certificate.

The Council of the Society has been informed of the view of the Executive on this matter.

## PHARMACEUTICAL COMMITTEES' CONFERENCE

A CONFERENCE of Pharmaceutical Committee representatives convened by the Central N.H.S. (Chemist Contractors) Committee was held in London on November 27 under the chairmanship of Mr. H. Steinman. 290 representatives attended from 120 Committees.

### Taking Stock

THE CHAIRMAN, in his opening address, stated that the Conference had been called primarily to receive a report on discussions with the Ministry in recent months and to take stock of current N.H.S. matters. MR. H. NOBLE (secretary, National Pharmaceutical Union) outlined action taken to prepare the claims for improved remuneration that had been submitted to the management side of the pharmaceutical Whitley Council. The main claim, submitted at April 1, 1952, was for parity with Scotland in the payment of services. A claim had also been made for an increased container allowance. To support the claims information had been sought from 800 contractors in England and Wales. The "sample" had been selected on a statistical basis by an actuary, and the survey had been framed on advice from consulting accountants. Some difficulty had been experienced in securing data, and it had not been possible before October to complete the documented case for increased dispensing fees, but the case was now under examination by the Ministry. It was true that the response from the 800 contractors was less than the Committee had felt entitled to expect, but the Committee felt certain that its case could not be upset on grounds of its not being representative. The possibility that the Ministry would decide on a full-scale inquiry into the costs of providing a dispensing service, an inquiry conducted either by the Ministry alone or by the Ministry in association with the Central N.H.S. Committee, could not be excluded, but there was no reason to fear such an inquiry. Analysis of the data relating to current container costs had resulted in a claim for a container allowance of 2½d. per prescription being sent to the Ministry in October. The other claim before the Ministry, made in June 1952, was for increased remuneration to take account of increased costs due to "levy" conditions.

A motion to refer back the decisions of the Conference to Local Pharmaceutical Committees, submitted by

Glamorgan Pharmaceutical Committee, was lost. Resolutions were adopted calling for increased fees and container allowances, for removal of anomalies from the present fee scale and to ensure that the scale yields the intended overall average fee. The Conference showed that it considered increased dispensing fees to be more desirable than an increased rate of oncost.

MR. G. H. M. GRAHAM (a member of the Central N.H.S. and Joint Pricing Committees) reviewed the circumstances in which the ECN 107 proposals for partial clearance of pricing arrears had been issued by the Ministry. The result of the Ministry's approach had, he said, justified the Committee's attitude. He outlined progress in securing increased output from the pricing bureaux system. Currently the monthly output of prescriptions certified for payment was over 22 millions, with an expectation that the rate would continue to rise as trainee staff reached a productive level. At present rates the arrears, now reduced to 125 millions, would be cleared by the Spring of 1954 and a return to full pricing of prescriptions, sorted into doctor order before submission, should then be possible.

The Conference then adopted resolutions:

1. Deploring the Ministry's direct approach to contractors with the ECN 107 proposals.
2. Authorising the Central N.H.S. Committee to take full responsibility for conveying to the Ministry the views of chemist contractors in all future negotiations.
3. Calling for a longer period in which to consider any Ministerial proposals and requesting that on future occasions absence of reply should not be taken as indicating acceptance of a proposal.

The Conference adopted a resolution that the value limits in the scheme for prompt payment of ingredient costs of "expensive" prescriptions should be reduced.

### Drug Tariff Basic Prices

Before dealing with current negotiations on Drug Tariff basic buying quantities and payment for proprietary medicines, MR. J. WRIGHT (assistant secretary, N.P.U.) outlined action by the Committee on several occasions on which the Ministry had sought upward revision

of the basic quantities. During 1952 it became apparent, he said, that the Ministry was under strong pressure from the Public Accounts Committee to satisfy itself that the existing Tariff basic quantities were realistic and that pricing of proprietary medicines was on a proper basis. In July 1952, proposals were received from the Ministry for revising the basic prices of a number of drugs and galenicals and for "basic" packs of a long list of proprietary medicines. Representatives of the Central N.H.S. Committee told the Ministry that it would be necessary to agree a "basic" period for Drug Tariff quantities of drugs and galenicals, and that the quantities should relate to one month's replacement stocks, not six months'. The Committee agreed to look at the list of proprietaries to see whether any of the proposals could be accepted until the whole question was settled. The result was the list of twenty-seven items before representatives. The Conference agreed to remove one item from the list and authorised the Central N.H.S. Committee to place certain counter-proposals before the Ministry. A resolution dealing with price changes resulting from the removal of purchase tax was carried, after THE CHAIRMAN had said that the Central N.H.S. Committee kept such changes under review.

### Trusses and Elastic Hosiery

In a review of the developments that had led to the seeking of up-to-date information on the supply of trusses and elastic hosiery on form EC10 from two selected groups of contractors, MR. DONALD HUDSON (chairman, N.P.U.) stated that the existing bases of payment were:—

- (i) Elastic hosiery: Invoice cost price plus 50 per cent.
- (ii) (a) Spring trusses, where measuring and fitting have been carried out by the contractor who submits the form for pricing and the form is endorsed to that effect: Invoice cost price plus 100 per cent.
- (b) Spring trusses, where the measuring and fitting have been carried out by someone other than the contractor who submits the prescription for pricing; and proprietary elastic-band trusses: Cost price, plus 25 per cent. on-cost, plus appliance fee (4d. + 1d.), plus container allowance.

Those bases of payment had been in

operation, said Mr. Hudson, since the early days of the Service. He outlined steps the Central N.H.S. Committee had taken resulting in the Ministry being informed that, though the principle of a fitting fee plus an oncost allowance was acceptable, the Ministry's proposals could not be accepted. The Central N.H.S. Committee and the Surgical Instrument Manufacturers' Association had put forward counter proposals, and both bodies undertook to seek factual information. The return of a questionnaire on supplies during November 1952 was awaited. The next two issues of "Prescribers' Notes" would contain guidance on the correct way of ordering elastic hosiery on form EC10. On disallowances to contractors who had inadvertently supplied the wrong type of hosiery, Mr. Hudson indicated that the Ministry had agreed, as part of the general tidying-up process, to pay on agreed basic prices for such supplies made during the period February-September 1952; the arrangement would not extend beyond the end of September, and the requirements of clause 16 of the Tariff must therefore be observed. A resolution dealing with the levy on elastic hosiery was lost. A resolution that the Tariff price should be allowed for "disallowed" appliances was accepted after delegates had been told that such a claim had already been made to the Ministry.

### Oxygen

Mr. Hudson also reviewed the supply of and remuneration for oxygen and oxygen-therapy equipment. He said there was still no agreed basis of payment for hire of equipment, despite repeated attempts by the Central N.H.S. Committee to get the question settled. As far back as June 1949 the Ministry had given its opinion that oxygen and equipment should be handled only through the Hospital Service. Representatives of the Committee had told the Ministry, at a meeting held a few days later, that its proposal could not possibly result in a more efficient or less expensive service. After about three-and-a-half years, and despite periodical attempts by the Central N.H.S. Committee to bring matters to a head, the whole major question of channel of supply remained unsettled.

The Committee had claimed an allowance to cover the cost of transporting cylinders to the patient's home, and a resolution supporting the claim was carried.

*(To be concluded).*

## BRANCH AND ASSOCIATION MEETINGS

**Work of the Pricing Bureau.**—At a meeting of the Rhyl Branch of the Pharmaceutical Society held in Rhyl recently, Mr. F. Purse (Clerk to the Welsh Joint Pricing Committee) gave an address on "The Pricing Bureau and its Work." Mr. T. G. Anwyl presided. Mr. Purse asked for the co-operation of all pharmacists in endorsing prescriptions where there was any doubt as to strength, quantity or dosage.

**Junior Branch Formed.** — A junior branch of the West Middlesex Chemists' Association was formed at a special meeting of the Association in Ealing, London, W.5, recently. The chairman (Mr. J. D. Ironmonger) said the purpose was to promote a corporate, professional and cultural spirit among members, to provide opportunity for discussion of matters of interest to students and newly-qualified pharmacists, and to arrange social functions of appeal to younger members. Mr. F. W. Adams (registrar of the Pharmaceutical Society) reviewed ways of organising such a branch.

**Film Evening at South Shields.**—The first meeting of the 1952-53 session of the South Shields Pharmacists' Association was given over to a show of films by Evans Medical Supplies (Northern), Ltd., Newcastle-upon-Tyne. Mr. N. McQueen (general manager of the company) introduced Mr. W. John Merrick who outlined the films that were to follow: "The Nose Has It" (a humorous "short" on sneezing); "Take Thou" (the story of pharmaceutical manufacture); "New Detergents" (a Petroleum Films Bureau production), and "Fly about the House" (a colour cartoon on the menace of the house fly).

**Dundee Lecture and Prize Giving.** — Dr. D. McCall (resident secretary in Scotland) addressed the October meeting of the Dundee Branch of the Pharmaceutical Society in Dundee recently, on "The Pharmacist and his Relation to the State" (see *C. & D.*, July 26, p. 122). In answer to questions Dr. McCall said that he considered the economic head of population per pharmacy was in the region of 6,000, a figure that was almost double the one for England and Wales. He also said if the "average" pharmacist could obtain adequate remuneration for the exercise of his professional duties, he would be less tempted to carry on the mixed type of business which was characteristic of

British pharmacy today. Any limitation of pharmacies would, of course, have to be part of a long-term policy and it would operate first in "saturated areas" where the elimination of superfluous pharmacies would follow from natural causes. The speaker made it clear that he was expressing only his own views. He then presented prizes to the two best local second-year students: Miss Margaret I. Clark and Mr. David W. Richardson. The Evans prize of ten guineas was won by Mr. James A. Burns, and the British Pharmaceutical Codex by Mr. E. Mollison, B.Pharm., Ph.C. The Branch delegates to the annual meetings of the Society in Edinburgh and London and to the British Pharmaceutical Conference in Nottingham gave reports.

**N.H.S. Discussed at Hounslow.** — An address on "The Retail Pharmacist and the National Health Service" was given by Mr. W. E. Stokes (chief pharmacist, Timothy Whites & Taylors, Ltd.) at a meeting of the Hounslow Branch of the Pharmaceutical Society held in Hounslow recently. Mr. Stokes said that, when the N.H.S. was inaugurated, the retailer had risen to the occasion and had taken the opportunity of improving his service. More retail pharmacists were doing more of the kind of work for which they had been trained. Mr. Stokes believed a result of the Health Service was the development of an even higher standard of service and ethics in chemists' shops. He went on to give examples of ways in which pharmacists could achieve greater productivity and at the same time improve the quality of their work. One of the most important factors in efficient dispensing practice was keeping to a minimum the amount of walking necessary from one unit of furniture to another during the dispensing of a prescription. Mr. Stokes stressed the importance of endorsing prescriptions in every case where there was the slightest risk of confusion or ambiguity over the item dispensed. Most pricing queries that troubled the Joint Pricing Committee could be avoided if pharmacists would refer more to the Drug Tariff. Asked if he thought that Health Centres constituted a menace to the retailer, Mr. Stokes replied that he thought the answer lay with the retailer himself. It was up to him to see that he gave a more efficient and personal service than the centres. He would then be in no danger of losing business.

## LOCAL DINNERS AND DANCES

**Cheltenham Branch.**—The Cheltenham Branch of the Pharmaceutical Society held its annual pharmacy ball in Cheltenham on November 7. Guests were welcomed by the Branch chairman (Mr. R. G. Badham).

**Birkenhead and Wirral Association.**—Nearly 400 people attended the carnival dance held by the Birkenhead and Wirral Pharmacists' Association in Port Sunlight on November 13. The function was organised by a committee comprising Messrs. J. W. Waterworth (president), M. Harrop (social secretary), R. Powell, E. G. Frost, A. Dewar, R. Price, T. A. Brigham and Councillor R. Pilkington.

**Hull Chemists' Association.**—The Hull Chemists' Association and Branch held its annual dinner and dance in Hull on November 14. Mrs. Thelma McNicol (president) in the chair. Nearly 200 were present. Mrs. McNicol proposed the toast "Kingston-upon-Hull" and Mr. F. R. Metcalfe (Sheriff of Hull) replied. The Chief Constable of Hull (Mr. S. Lawrence) proposed "The Pharmaceutical Society" and Alderman W. J. Tristram (president of the Society) replied.

**Nottingham Branch.**—100 members and guests were present at the annual dinner held by the Nottingham Branch of the Pharmaceutical Society at Nottingham on November 6. The loyal toast and "The City of Nottingham" was proposed by Mr. H. T. Christian (vice-chairman) and replied to by the deputy lord mayor of Nottingham (Alderman G. H. Wigman). "The Pharmaceutical Society" was proposed by Mr. A. W. Bull and replied to by Mr. T. Heseltine (vice-president of the Society). "The Ladies and our Guests" was proposed by Mr. K. Brooke and replies were made by Mrs. G. E. Trease and Mr. S. K. Agrawal (president, Nottingham University Pharmaceutical Students' Society).

**Harrow Branch.**—The annual dinner and dance of the Harrow Branch of the Pharmaceutical Society was held in London on October 22, Mr. F. E. W. Gibson (chairman) presiding. The chief guests were Professor A. D. Macdonald (a member of the Society's Council), Councillor C. E. Jordan (chairman, Harrow Urban District Council) and Mrs. Jordan. The loyal toast and "The Pharmaceutical Society" were proposed by the chairman. The response to the latter was made by Professor Macdonald. Dr. J. M. Rowson proposed "The Ladies and Visitors," and

Councillor Jordan replied. An effort to commence a Branch fund ("Harrow Helps London") to aid the 1953 meeting of the British Pharmaceutical Conference met with a good response at the dinner. Dancing followed.

**Council Members at Leeds.**—At the annual dinner and dance of the Leeds Branch of the Pharmaceutical Society held in Leeds on October 29, the chief guests were Messrs. W. J. Tristram (president of the Society) and D. W. Hudson (a member of Council and chairman, National Pharmaceutical Union). Mr. F. Mitchell (Branch chairman) proposing a toast to the Pharmaceutical Society, said that there were enough controls in pharmacy to ensure public service without an extension of the code of ethics. That would appear to restrict the normal activities of the retail pharmacist who was, in fact, the mainstay of the Society numerically and financially. Alderman Tristram said that pharmacists must accept, in the course of duty, a code which demanded a standard of conduct befitting their profession even if the matters included were not offences against laws of the land. The sum of £12 10s. was raised for the Society's Benevolent Fund.

**Wolverhampton Dinner and Dance.**—The annual dinner and dance of the Wolverhampton Branch of the Pharmaceutical Society was held on October 16. "The Pharmaceutical Society" was proposed by Alderman Dr. A. Byrne-Quinn (chairman of the Wolverhampton Executive Council). Replying, Mr. F. C. Wilson (a member of the Society's Council) said that he much appreciated being invited as principal guest of the Wolverhampton Branch for the second year. He asked the Branches to examine the Revised Statement on Matters of Professional Conduct closely as there had been a great deal of scaremongering in the country. He asked those present to realise that eighteen out of twenty-one members of the Council were engaged in retail practice and two others in the wholesale and administrative side. Thus their own livelihood depended on the prosperity of pharmacy as practised in retail. Proposing the toast of "Our Guests," Mr. D. A. Rimmer (secretary of the Branch) mentioned that among those present were members of the Dudley and Stourbridge, Walsall and Birmingham Branches. Mr. S. C. Pinder (a member of the United Commercial Travellers' Association) replied. Dancing followed.

R

C.I.O.	LIVIN' NIGHT AND THINKIN' DAY
Mr. Mrs. Miss	W. Flannigan. Age 15 under 18
ADDRESS	45. Ann St. Sagamore, W. 2.

is stamp

ZINC + CASTOR OIL B.P.C.  
SUPPLEMENT 1952

Mitte: 3ii WF JAR FITTED SEPIA  
DOUBLE SHELL SCREW CAP  
PRED FROM HIC

DOUBLE SHELL  
Mod. op. MANUFACTURED FROM HIGH  
GRADE MATERIAL HOMOGENISED  
TO MICROSCOPIC FINENESS  
ADDRESS

Sig. YOUR OR  
AT PRICES QUOTED

# **SKUSE & CO. LTD.**

## **Manufacturing Chemists**

839/841 Harrow Road, London, N.W.10

Telephone LADBROKE 2201-2-3

## Telegrams SKUDENT HARLES

*Quality*  
**ASPIRIN**  
**TABLETS**  
***IN BULK OR PACKED***

**The WALLIS LABORATORY Ltd  
58, KING GEORGE'S AVE. WATFORD, HERTS.**

# THE NEW ANTISEPTIC LIQUID DENTURE CLEANSER

**1/9 and 2/9 per bottle**

*Direct or through your wholesaler :—THE ORDERENT CO. 49a High Street, Walton-on-Thames*

# ODEDENT

**TRAGACANTH**  
SPECIALISTS IN B.P. POWDER  
SAMPLES AND PRICES ON REQUEST  
FREUDENTHEIL, SMITH & CO. 16 Philpot Lane,  
London, E.C.3  
MANSION HOUSE 1924 & 6600 Estd. 1826

## **INFORMATION WANTED**

*The Editor would appreciate information about suppliers of the following items:*

- SURGASEPTIC (anyone supplying now)
- COBALT veterinary tablets
- SAUCEY SUE soap novelty
- FLAVORZINE



*The*  
**CHEMIST AND DRUGGIST**  
 for RETAILER—WHOLESALE—MANUFACTURER  
 ESTABLISHED 1859

Circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades throughout the World

Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire.

VOL. CLVIII December 6, 1952 No. 3798

## A Stocktaking and a Renewal of Confidence

THE Conference of Pharmaceutical Committee representatives held in London on November 27 (p. 772) presented the unusual spectacle—for such conferences—of almost complete deference to the platform. The list of resolutions on the agenda was unprecedently long, even for an all-day conference, but by the time many of them had been withdrawn, and many more had been passed or rejected without discussion, the amount of debate from the floor was small, and interest centred principally on the four informative statements by, respectively, the N.P.U. secretary, assistant secretary, chairman, and by Mr. G. H. M. Graham (as a member of the Joint Pricing Committee for England and Wales) on claims for increased remuneration, Drug Tariff basic prices, the supply of appliances and oxygen, and the pricing of prescriptions. Those statements proved the chairman's reference to a "stocktaking" conference apt and accurate. The fact is that most of the actions that had been called for in the resolutions had been already taken (or thought of and rejected) by the Contractors' Committee, and once the Committee had given an account of itself on matters that could hardly have come out so well from printed reports in the interval since the previous conference, there remained little to do but express confidence in the negotiators. Though there was no formal resolution to that effect, the whole conference became an overwhelming vote of confi-

dence in the Committee and executive officers, and the Ministry of Health, which appeared to think recently that it had good hope of driving a wedge between the contractors and their appointed spokesmen, must now see that the solidarity of the "staff side" of the pharmaceutical service is even more irrefragable than the recent ECN 107 plebiscite indicated.

## Markings on Imported Goods

WITH the return to normal commercial competition, the law relating to marking of imported goods, which lost much of its relevance in the abnormal conditions of the war and immediate post-war periods, is regaining its former importance.

Under the Merchandise Marks Act, 1926, it is necessary to mark imported goods sold or exposed for sale, (a) where they bear a name or trade mark of a United Kingdom person, firm or place (there are exceptions for uncompounded drugs in certain circumstances), or (b) where the goods belong to a class or description which is the subject of an Order-in-Council. In those circumstances the method of marking is prescribed in the Order. The indication of origin has to be conspicuous and should consist of the words Foreign or Empire, as appropriate, or of a statement of the country in which the goods were manufactured.

The responsibility for ensuring that imported goods bearing a U.K. name or trade mark are properly marked rests with the importer if they bear the name, etc., at the time of importation. If the name, etc., is first applied at a later stage, the responsibility rests with any person who sells or exposes them for sale. They need not, however, be marked on exposure for sale by a wholesale dealer. The responsibility for the marking of goods to which Orders-in-Council apply arises at different stages according to the class of goods. Some are required to be marked at the time of importation, and may be seized by the Customs if not so marked; some, but not all, at the time of first exposure for sale by a wholesale dealer; others not until the wholesale dealer sells them. In all cases a responsibility rests upon the retailer to see that the goods that he sells or exposes for sale are properly marked.

The list of goods subject to Orders-in-Council includes many medical instruments; scientific glassware; hair combs; crêpe bandages; tooth-brushes and shaving brushes; cotton wool, gauze and sanitary towels; vanity cases, etc.

### Overseas Trade in October

UNITED KINGDOM exports in October were £219 millions, £27 millions (14 per cent.) more than the monthly average in the third quarter. Even allowing for the extra working day in October, there was thus, on the basis of daily rate of exports, an increase of 10 per cent. The increase in volume is estimated to be of the same order. In earlier years there have been similar increases in October after the effects of holidays in the third quarter. Despite that sharp increase in daily rate, it was still 5 per cent. less than in the second quarter, and 7 per cent. less than in October 1951.

Imports into the United Kingdom were valued at £267 millions, £4 millions more than the average for the third quarter. The average for the ten months was 9 per cent. less than the average for the year 1951. Re-exports in October were valued at £12 millions, and the excess of imports (c.i.f.) over exports and re-exports (f.o.b.) was £36 millions.

The downward trend in export values of all drugs, medicines and medical preparations was arrested during October. The monthly value was £2,594,912, against £2,332,568 in September, and a breakdown of the total shows that nearly all items contributed to the recovery. The exceptions were penicillin salts at £169,678 (against £192,299); sulphonamides, £220,545 (£232,169) and aspirin, £90,136 (£100,251). Penicillin injections, at £176,822, were up by about £6,000, and other penicillin preparations, at £34,379, by £3,000. Exported antibiotics other than penicillin were, at £295,205, the highest on record. Antipaludics, at £37,883, showed some improvement over the past two months, but were well under the average for the first half of the year. Insulin, at £32,896, made its first recovery since May, though in that month the value was £43,350. For the first time since January, ointments and liniments

reached six figures (£108,526). Quinine exports were valued at £23,278. Australia was the largest single purchaser of medicinal products, taking goods to the value of £221,137. Hong Kong followed closely with £205,558.

Perfumery and toilet preparations exported were valued at £555,685, the highest since January (£601,283). The October figure included cosmetics at £219,150, and dentifrices, etc., at £105,076. Perfumed spirits were valued at £61,602, essential oils at £36,822, and toilet soaps at £233,987.

On the import side, essential oils rose from £179,485 in September to £262,611 out of which re-exports accounted for £46,684. Manufactured or prepared medicinal preparations (excluding menthol) rose substantially to £425,264 of which only £54,271 was re-exported. Imports of menthol were valued at £5,695.

### A Nutritional Rôle for Antibiotics

THE young and highly specialised antibiotics industry will assume an even greater importance if the results of primary investigations into the value of antibiotics in animal and vegetable food production (November 1, p. 601) are confirmed, as present indications are that they will be. The primary report of the Agricultural Research Council (p. 764) already bears out findings of American workers, and the fact that the Council has issued the report only a month before it expects to be able to make a definite recommendation may be taken as recognition of the need for adequate notice to all concerned of the immense pharmaceutical industrial development that may be imminent. The degree of use of antibiotics in feeding-stuffs in Britain would otherwise depend on the extent to which the needs of food production could be allowed to compete with those of medicine. The interim report gives few technical details. Investigations with poultry, however, were the subject of papers read recently before the World's Poultry Science Association, and they indicate that the function of antibiotics is to destroy growth-inhibiting infections rather than directly to stimulate growth.

## CORRESPONDENCE

**Letters may be sent for publication under an assumed name, but the correspondent must furnish his real name and address to the Editor**

### Service Without Reward

SIR,—In reply to "Branch Manager" (*C. & D.*, November 22, p. 713), Scottish Chemist is quite aware of the postal service and the telephone, both of which are in frequent use. It is no uncommon thing to telephone long-distance calls for urgent ethicals. On one occasion we telephoned Glasgow and Edinburgh for an "ethical" and were unsuccessful. Ultimately we telephoned Manchester in order that no patient should suffer. Some may say that is foolish and that no business can stand it, but money making should be secondary where urgent medicines are concerned. SCOTTISH CHEMIST.

### Metric Measures

SIR,—In reply to "Imperial's" letter in last week's *C. & D.* (p. 747), the President of the Board of Trade has only repeated the statement made by Sir Hartley Shawcross two years ago that the Government did not intend to introduce legislation to make the use of the metric system compulsory for all purposes. For many years pharmacy and medicine have been the only sciences that do not use the metric system. Both the Pharmaceutical Society and the British Pharmacopœia Commission have advocated a change. Now, owing to the rapid increase in the use of sulphonamide drugs, antibiotics and other injections, an ever-increasing proportion of pharmaceuticals are described in metric measure. Since wholesalers and manufacturers are about to standardise their range of bottles so as to sell liquids by volume it is a logical moment to bring pharmacy into line with other sciences. METRIC.

### Proof, Please

SIR,—Your correspondent, Mr. H. R. Thurgar, of Great Missenden, whose letter is published under his trading name G. J. Coombes (*C. & D.*, November 29, p. 747), imputes to the National Pharmaceutical Union a statement ("the pious platitude that 'all will be well, if and when full pricing is resumed'") which the N.P.U. has never made. It would be interesting and illuminating if Mr. Thurgar would send to you, for the information of your readers, the calculations on which he assesses that he has received £147 5s. 6d. less, for the drugs he has supplied on N.H.S. prescriptions over a period of

seventeen months, than he would have received had all prescriptions been individually priced. It is extremely unlikely, in my opinion, that his contention is soundly based. Although no chemist regards the present "averaging" system as satisfactory, to condemn it on contentions which are not supported, and which are contrary to such published evidence as is available, merely increases contractors' worries unnecessarily and unjustifiably.

London, W.C.1. H. NOBLE, *Secretary*,  
National Pharmaceutical Union.

### Disguised Ethicals

SIR,—"Branch Manager," in your issue of November 22 (p. 713), concedes one or two points to me, and asks me to agree that his company manufactured ethicals for years before N.H.S. started. I agree, and my only real grouse is that scripts bearing the name of this company would tend to be taken to the nearest branch. That is not quite playing the game, and I understand that an attempt is being made to prohibit the practice. As it is the season of goodwill, I will go so far as to say that no pharmacist, private or otherwise, would deny that the new injection cartridge and special syringe marketed by the same firm is a clever and useful idea, though most of us are of opinion that the market for nasal drops is a trifle overcrowded. With regard to the question whether a private pharmacist can be compared with a large multiple having clinical facilities, etc., etc., I would say there is no comparison whatever. Would anyone say that a glass-bottle factory turning out a million bottles per day under ideal conditions can produce anything to compare with the mouth-blown glassware of the Venetians? Or does "Branch Manager" think the suits turned out by multiple tailors with immense factories in the North are comparable with the hand-made garments reverently put together by the little tailor squatting on a table in his small back room? No, sir! The independent private pharmacist standing on his two feet without the support of an immense organisation often gives, without thought of immediate reward, a type of human, personal service quite unknown to "big business" whose main concern is to satisfy shareholders. I know—I was a company "stooge" for long enough.

Twyford. C. H. PATRICK.

## INTERNALLY COATED COLLAPSIBLE TUBES

ONE of the results of post-war economic conditions was a phenomenal rise in the price of tin, and as the price continued to soar it became necessary to find an alternative metal for the construction of collapsible tubes. Aluminium was chosen because, first, it had many properties similar to tin, and secondly it had, as a result of war-time developments in its production, become available in large quantities and at a reasonable price.

### Manufacturing Problems

But there were certain difficulties to be overcome before the metal could be brought into use by collapsible-tube manufacturers. New machinery had to be introduced to overcome its work-hardening characteristic. New lubricants were developed, and modifications brought about in the design of extrusion tools. As a result of those changes and sundry other adjustments, it became possible to manufacture collapsible tubes in aluminium with the same precision and efficiency as they had hitherto been produced in tin.

The problems facing the manufacturers already using or intending to use collapsible tubes as packs for their products were more fundamental, and correspondingly more difficult to overcome. Compared with tin, aluminium had two disadvantages:—

(1) Even in the fully annealed state it was more rigid and less readily rolled up as the contents of the tube were consumed.

(2) As a metal it is a much more reactive metal chemically and there were thus many products (particularly those in the alkaline range) which would give rise to serious corrosion.

Little could be done to counteract the first disadvantage. The use of "super-pure" (99.99 per cent.) aluminium produced some improvement in the "feel" of the tube, but, contrary to the common belief that that grade was less subject to corrosion, it was proved by a number of packaging tests to be more easily affected. The difference in hardness between aluminium and tin is shown by the following figures:—Tin, 13; "super-pure" aluminium, 15½; 99.7 per cent. aluminium, 19. The small degree of difference between the three becomes apparent when it is mentioned that hardened steel can exceed 1,000 on the same scale. Little can be done to counteract this disadvantage beyond keeping the wall thickness of the

tube as low as is consistent with the absence of pinholes, thus obtaining maximum flexibility and reducing the apparent hardness of the metal.

### Hope of Coated Tube for Creams

The development of internal surface coatings has minimised the second disadvantage, and it will probably not be long before it will be possible to provide an internally coated aluminium collapsible tube that can serve as a safe and satisfactory pack for any product in paste, cream, jelly or similar form. In addition to developing, in conjunction with the makers, suitable coating materials—waxes and lacquers—collapsible-tube manufacturers had to devise means and methods of applying them.

Various types of coatings are now in use. The most effective are the most expensive, and there is sometimes a tendency on the part of the makers of tube-packed products that need to be protected by internal coatings to select a material which, while providing protection, allows no margin of safety. Assurance of the efficiency of such coatings can be obtained only by a test of the "shelf-life" of the product thus packed, by storing it at room temperature for at least six months.

For two reasons the value of accelerated-life tests at elevated temperature can be discounted:—

(1) A large proportion of the products packed in collapsible tubes are based on emulsions whose stability is affected by increased temperature.

(2) Certain corrosive reactions, continuous at room temperature, can inhibit themselves at a higher temperature.

The choice of a coating may be further influenced by a desire to make use of a secondary property, such as thermoplasticity, which would ensure a hermetically sealed tube.

### Two Techniques

Methods of applying internal coatings to collapsible tubes fall broadly into two techniques: Spraying and flushing. Spraying is in more general use. It is carried out by a modified version of the normal spray-gun, to which is added an extension nozzle long enough to ensure that, at the end of its downward travel, it reaches the bottom of the inverted tube. Here again there were difficulties to be overcome, for the conditions were not favourable to spray application. One difficulty was that the

**ILLUSTRATED AT RIGHT :**

From a box at her side a girl transfers the tubes to a cup on the revolving platform of an internal lacquering machine. The tubes then travel to a position beneath the two spray guns, which plunge into the tubes. The guns spray the tubes whilst they are revolving and coat the walls, neck, and nozzle with lacquer. In the left-hand illustration the guns are shown in their highest position, and in the right-hand picture they are shown entering the open ends of the tubes. Continuing their rotary travel the tubes are removed from the cups and placed in partitioned boxes, which are then loaded on to trolleys. The trolleys are wheeled into a baking oven where they remain for thirty minutes before being returned to the normal production line for enamelling and printing.

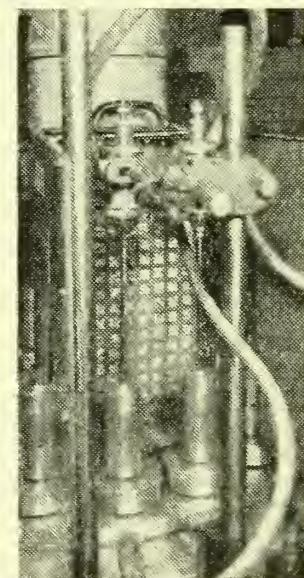
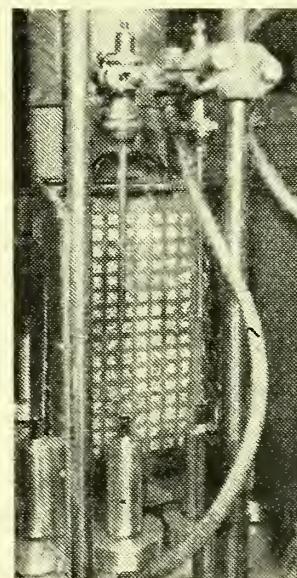
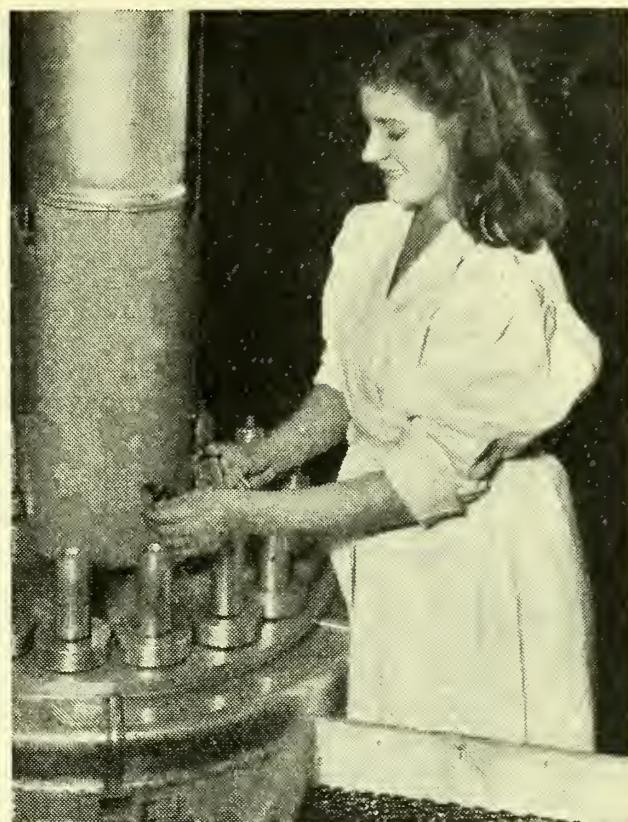
gun had to operate too close to the surface being coated. Another was that the escape of atomising air was greatly impeded by the long and slim cylindrical shape of the tube. After the coating has been applied the tube has to pass into a drying oven, and the space limitations just mentioned also complicated the problems presented by the subsequent stoving operation, since the solvent vapours tend to concentrate inside the tube, producing a condition known as solvent washing. This phenomenon may cause large areas to be exposed inside the tube. By means of critical experiment over a long period, those difficulties have now been overcome.

**Spraying Devices**

Various types of spraying devices are used by the collapsible-tube manufacturers, most of whom have built their own machines for the purpose. On one model recently seen in action, the tubes are inserted in twelve wooden cups on a rotating table, and as one tube is being sprayed by a descending nozzle, another is prepared for spraying by another descending nozzle which forces out all particles of dirt or fluff. The coated tubes are transferred from the machine to an endless conveyor belt fitted with vertical holders upon which the tubes travel vertically through a drying oven. As they emerge they are transferred by a girl wearing protective gloves to a trolley which carries them back to the normal production line for enamelling and printing.

On the machine shown in the accompanying illustration two tubes are sprayed simultaneously. In the factory two spraying machines are installed within a few feet of a gas-operated batch-drying oven, into which the internally coated tubes are wheeled on a two-tier trolley.

*(To be concluded)*



## DEPUTATION ON IRISH HEALTH SERVICE

A DEPUTATION from the Council of the Pharmaceutical Society of Ireland (consisting of Messrs. J. P. Kissane (president of the Society), M. Costello (vice-president), C. J. Cremen, G. C. O'Neill, P. A. Brady and J. G. Coleman) met with the Irish Minister for Health (Dr. J. Ryan) recently to discuss the White Paper on health services. The deputation, to which brief reference has already been made (*C. & D.*, November 22, p. 718), reported to the Council as follows:—

### Educational Developments Held Up

The members of the deputation stressed the professional interest of the Council in the White Paper and pointed out that uncertainty about the future was interfering with the development of the Society's educational and administrative plans. The Society should be able to inform parents and students about the position of pharmacists in the Minister's scheme. Pharmacists were alarmed by the tendency to disregard their professional qualifications and the activities of some Government departments did nothing to allay their fears. The Society was more than willing to co-operate in any reasonable scheme, and the Minister was urged to make use of the trained personnel already at his disposal throughout the country. He was asked for an assurance that he would be prepared to distribute medicines and supplies through retail pharmacies if agreement could be reached on the question of cost.

THE MINISTER stated that his proposals would not take away any business from the chemist. There might be a possibility of some extra business as a result of the rearrangement of maternity benefits. Under the scheme it was proposed to allow Public Assistance patients free choice of doctor (private practitioner or not) for maternity requirements. At the moment such patients were entitled to receive professional services and supplies from "dispensary doctors" free of charge. He had solved the problem of arranging free supplies for the Public Assistance patient who chose the private practitioner by proposing that a capitation fee should be given to the private practitioner covering the cost of medicines or sundries supplied.

The deputation asked the Minister if he did not see the danger of abuses. The doctor might be tempted to cut down on supplies or become a stockist in opposi-

tion to the chemist; the chemist might be exposed to undue influence where a doctor arranged to have supplies charged to his private account. THE MINISTER replied that he had assumed that the private practitioner would arrange with his local chemist to be charged for whatever supplies he ordered for Public Assistance maternity patients. That type of patient did not, at present, patronise the chemist and there was a reasonable chance that some of that business would in future go to chemists. Even if none of it did, the chemist would be no worse off. The proposals would not encourage the practitioner to become a stockist.

### Fears of Deteriorating Conditions

The members of the deputation stated that the Minister's proposals filled them with disappointment. Apart from economic considerations the chemist had been ignored by the Minister, who had merely satisfied himself that chemists could not assert they had been injured by a direct attack. The members of the deputation had themselves no reason to fear the new proposals but the younger pharmacists might find a steady deterioration in the practice of pharmacy. Unless the Society protested strongly at that stage it would be debarred from doing so when adverse factors became apparent later. THE MINISTER replied that he had not thought that pharmacists would suffer any injury. He was opposed to the idea of free medicines for everybody and he wished to provide for persons in the lower income group\* only. The arrangement he had outlined for maternity benefits was the only one he could find workable and he doubted if the deputation could suggest any alternative. Each local authority would have to bear half the cost of the scheme and if supplies were to be provided through the chemist each local authority would have to provide a pricing organisation employing a pharmacist.

The deputation then alluded to the maternity and child welfare clinics which had been opened in large centres and which were intended to operate throughout the country. Persons of the middle income group† were attending clinics in increasing numbers and purchasing medicines and nutrients at nominal prices. THE MINISTER explained that under existing legislation those people were entitled to such services. When his new scheme

came into operation it was intended that patients in the lower income group should be issued with cards for public assistance which would enable them to procure medicines and nutrients at the clinics. Patients without cards attending clinics would be entitled to free advice.

The members of the deputation told the Minister that they were dissatisfied with the proposed arrangements and that they would require time to consider what he had told them. They suggested that pharmacists' representatives should have conversations with officers of the Department of Health and that the chemists' experience might enable them to devise an alternative scheme. THE MINISTER was agreeable to that suggestion but hinted

that he did not believe it possible to find any other workable solution to the problem of maternity supplies to lower income patients who elected to attend a private practitioner. The meeting concluded on the understanding that the pharmacists would put a proposition before the Department officials and that if it was thought workable by the latter it would be brought to the Minister.

\*The lower income group are persons in the public assistance classes.

†The middle income group are persons outside the lower income group and who are (a) compulsorily insurable under the Social Welfare Act, 1952, or dependents of such persons; or (b) those whose main income is derived from farming and the rateable valuation of whose holdings does not exceed £50; (c) those whose family income does not exceed £600 and dependants of such persons.

## PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

A MEETING of the Council of the Pharmaceutical Society of Northern Ireland was held in Belfast on November 21, the president (Mr. W. H. Boyd) in the chair. Also present were Messrs. W. P. Ewart (vice-president), H. P. Crossin (treasurer), S. E. Campbell, H. J. Cousley, H. H. Cowzer, H. W. Gamble, H. F. Moore, J. McGregor, C. A. Quinn, P. R. W. Shinner and Walter C. Tate, Dr. H. D. Heazley and Professors E. B. C. Mayrs and James Small. The secretary (Mr. William Gorman) was in attendance. Apologies for absence were received from Messrs. James Irwin and F. R. Moore.

A letter from the committee of the Associates' Section of the Ulster Chemists' Association stated that note had been taken of remarks made at the September meeting of the Council regarding locums failing to appear to undertake duty. While the Committee condemned that practice, they pointed out that it had been known for employers to fail to keep arrangements with employees, even those in permanent positions. The letter was noted.

THE SECRETARY reported that he had received from the Ministry of Home Affairs a list of those authorised to sign orders for the supply of Dangerous Drugs to midwives.

On the report of the House Committee it was stated that the matter of a new lighting system for the assembly hall in the Society's house had been left in the hands of the president and secretary.

The Education Committee recommended that certificates of apprenticeship should be granted to Henry A. Allison, Londonderry, Nicholas Cunningham, Rathfriland, John A. Mooney, Belfast, George B. Moss,

Newtownards, Thomas T. Murphy, Comber, Brian O. Rankin, Newry, and Arthur F. Warnock, Dromore.

THE PRESIDENT reported on his visit to London at which he attended a meeting of the British Pharmaceutical Conference Executive, and outlined the programme for the London conference next year. With Mr. Gamble and the secretary he also gave an account of discussions with officials of the Pharmaceutical Society of Great Britain on points arising from the proposals for new legislation in Northern Ireland.

On the motion of MR. H. F. MOORE, it was decided to remove from the register the names of members, students and associates who had not paid their retention fees.

## A PHARMACIST'S ANTHOLOGY

I HAVE passed over many cooking recipes which would be very attractive if this England of ours was still abundantly provided with eggs, poultry and cream; but in present conditions they would be tantalizing rather than amusing. I wind up with a puzzle with which quite fairly I stumped André Simon the other day. What is bandoline? My great-grandmother says it is made by soaking the crushed pips of a ripe quince for twenty-four hours in water and adding a little rum and perfume. Simon naturally thought it was something to drink as I did until I found in Larousse that it was nothing of the kind, but just a gummy kind of hair wash.—From "A Contemplation of Wine," by Herbert Warner Allen.

## NEW BOOKS

**Pocket Prescriber.**—Alistair G. Cruikshank, F.R.C.P.E. 4 x 2½ in. Pp. 294. Fifteenth edition. 5s. (postage 3d.). E. & S. Livingstone, Ltd., 16 Teviot Place, Edinburgh. In the new edition of an old favourite the opportunity has been taken to deal with new drugs that have survived therapeutic trials. Chloramphenicol, B.P., of which dosage charts are given, has received special attention, and the section on modern drugs has been enlarged and rounded off with recommended dosages. Drugs still regarded as suitable for use only in hospitals are intentionally omitted.

**The Year's Photography.**—10 x 7½ in. 10s. 6d. (A few copies in two-colour, paper covers, at 7s. 6d. each). Royal Photographic Society, 16 Princes Gate, London, S.W.7. This now world-famous annual this year contains 117 plates, including two frontispieces in colour, and a review by Mr. Percy W. Harris (a past-president of the Society and editor of "Miniature Camera Magazine") of the Society's ninety-seventh annual exhibition. The book includes an index of names and addresses of the photographers whose work is reproduced. Acting on a criticism made in these columns last year, the publishers have omitted medical photographs, but pictorial prints, science, nature, architecture, archaeology, monochrome transparencies, and cinematography are well represented and of a standard that gives the volume a high place in the long series of which it is part.

**Iodine Content of Foods.**—10 x 7½ in. Pp. vii + 183. 21s. Compiled and published by Chilean Iodine Educational Bureau: Distributors: Lange Maxwell & Springer, Ltd., 41 Neal Street, London, W.C.2. The book follows the pattern of its predecessor "Iodine and Plant Life" and consists of an annotated list of 326 scientific papers known to contain chemical facts about the presence of iodine in the foods of man and domestic animals. The data collected is arranged in a series of tables, the classification being practical rather than scientific. The book begins with a review of the existing state of knowledge in this field and assesses the value of the assembled data. Entries in the bibliographical section are arranged chronologically by year of publication and then alphabetically according to author's name where there is more than one entry for a particular year.

**The Metabolism of Protein Constituents in the Mammalian Body.** — S. J. Bach, 9½ x 6 in. Pp. 272. 40s. Oxford University Press, Amen Corner, Warwick Square, London, E.C.4. In the first comprehensive work on protein biochemistry since before isotopic tracers came into use, the author takes into account several thousand experimental and review articles in presenting a coherent story of the development of problems in the metabolism of amino acids. While giving experimental data supporting views opposed to his own, he admits disarmingly that he has concentrated on conveying his own interpretation, for which lack of impartiality he asks forgiveness while pleading that it does not prevent experts from weighing critically his arguments. The book is concerned with ten protein constituents. The remainder will be dealt with in a succeeding volume.

**Skin Therapeutics.**—M. K. Polano. 9 x 6 in. Pp. 276. 37s. 6d. Elsevier Publishing Company, Amsterdam (sole distributors for the British Commonwealth: Cleaver-Hume Press, Ltd., 42A South Audley Street, London, W.1). Pharmacists should warm to the author of this book, who is head of the dermatological department of the municipal hospital, The Hague. He not only stresses the importance of the art of prescribing, "which is seriously threatened by the modern trend of prescribing . . . proprietary medicines" when, using the method of "paired comparisons," prescribers "might discover that at least as good results could be attained with less cost to the patient or social security organisation." He points out also that the prescribing of proprietaries menaces the skill of the pharmacist, and acknowledges useful hints from pharmacists. The book provides a system to facilitate the prescription of all medicaments necessary in skin therapy, drawing on "the long-valued remedies of the old masters" no less than the newer agents such as the sulphonamides and antibiotics, and using the pharmacopœias of the United States, Britain, Switzerland and Holland. Six chapters deal in turn with the general considerations on dermatotherapeutics, basic materials, their use in prescriptions, specific drugs, choice of base and the effect of drugs on the skin. A seventh gives tables of comparison of dermatotherapeutic drugs in twelve pharmacopœias.

# MICROBIOLOGICAL TECHNIQUES—VI

By Edward Gurr, F.L.S., F.R.I.C., F.R.M.S.

*Continued from THE CHEMIST AND DRUGGIST*

THE procedures outlined below can be readily followed in the laboratory without reference to other sources.

## Demonstration of Reticular and Collagen Fibres.

Note: In this technique sections must be manipulated with glass needles throughout as contact with metal instruments will ruin the preparations.

### Solutions required:

- (a) Liq. ammon. fort. 0.880, 5 mils.  
Distilled water, 45 mils.
- (b) Potassium permanganate, 0.5 per cent. aqueous.
- (c) Oxalic acid, 1.5 per cent. aqueous.
- (d) Silver nitrate, 5 per cent. aqueous.
- (e) Silver oxide (Fontana).
- (f) Aniline oil, 20 mils.  
Xylol, 20 mils.

### Technique:

1. Cut frozen sections up to 10 $\mu$  in thickness and fix in 10 per cent. formalin.
2. Wash in three changes of water for fifteen minutes in each.
3. Immerse in (a) for fifteen minutes in an oven at 60° C.
4. Rinse well in three changes of distilled water.
5. Immerse in (b) for three to five minutes.
6. Rinse with distilled water for about fifteen seconds.
7. Decolorise with (c) until the brown colour just disappears.
8. Wash well in distilled water.
9. Immerse in (d) in the dark for an hour.
10. Rinse well in two changes of distilled water, in the dark.
11. Immerse in (e) in the dark, at 60° C.
12. Wash rapidly in three changes of distilled water.
13. Immerse in 30 per cent. formalin for two to three minutes, at 60° C.
14. Wash the sections thoroughly in running tap water, then transfer them to slides and carefully blot away excess water.
15. Dehydrate with two changes of absolute alcohol.
16. Clear in aniline-xylol (f).
17. Wash with xylol, mount in dammar xylol.

*Result:* Reticulum, black. Collagen, brown.

## Differential Staining of Connective Tissue and Muscle.

### Solutions required:

- (a) Weigert haematoxylin, A.
- (b) Weigert haematoxylin, B.
- (c) Biebrich scarlet, 0.2 per cent. aqueous, 100 mil's.
- Glacial acetic acid, 1 mil.
- (d) Picro aniline blue.
- (e) Acetic acid, 1 per cent. aqueous.

### Technique:

1. Small pieces of tissue are fixed in 10 per cent. formalin, dehydrated, cleared and embedded in paraffin wax.
2. Fix sections to slides, dewax with xylol, pass through the usual descending grades of alcohol down to distilled water.
3. Stain for five minutes in a freshly prepared mixture consisting of equal volumes of (a) and (b).
4. Wash in tap water.
5. Immerse for three to five minutes in (c).
6. Rinse in distilled water.
7. Stain for three to five minutes in (d).
8. Rinse for three to five minutes in (e).

*DRUGGIST, November 22, p. 726.*

9. Dehydrate in the usual ascending grades of alcohol.

10. Clear in xylol and mount.

*Results:* Connective tissue, glomerular basement membrane and reticulum, blue. Muscle and plasma, pink. Erythrocytes, bright red.

## Staining of Actinomyces in Sections.

### Solutions required:

- (a) Ehrlich haematoxylin.
- (b) Phloxine, 5 per cent. aqueous.
- (c) Aniline gentian violet.
- (d) Gram's iodine.

### Technique:

1. Small pieces of tissue are fixed in 10 per cent. formalin, dehydrated, cleared and embedded in paraffin wax by the standard technique.
2. Fix sections to slides, dewax and take down to distilled water through the usual descending grades of alcohol.
3. Stain with (a), "blue" in tap water or in saturated lithium carbonate solution.
4. Stain for ten to fifteen minutes in (b).
5. Wash in distilled water.
6. Stain in (c) from five to ten minutes.
7. Rinse in distilled water.
8. Stain in (d) for one minute.
9. Wash with distilled water.
10. Decolorise with ammine oil until colour ceases to come out of the sections.
11. Rinse in several changes of xylol and mount in Cristalite or in Canada balsam in xylol.

*Results:* Branched forms are stained blue, while clubs appear red.

## Staining of Pleuropneumonia Organisms in Sections of Lung.

### Technique:

1. Small pieces of tissue are fixed in absolute alcohol or in Bouin or in Carnoy and embedded in paraffin wax in the usual way.
2. Fix sections to slides, dewax and pass through descending grades of alcohol down to distilled water in the usual way.
3. Immerse in Phosphotungstic haematoxylin (Mallory) in a stoppered staining jar for twenty-four hours, without treatment with the usual potassium permanganate and oxalic acid solutions.
4. Drain slides well, without washing, but do not allow them to dry in the air.
5. Carefully blot dry, dehydrate quickly in absolute alcohol.
6. Clear in xylol, mount.

*Results:* The organisms appear as masses of mycelia, stained deep blue.

## Delicate Structures

### Mounting of Filamentous Algae and Other Delicate Structures

#### Solutions required:

- (a) Glycerin 5 per cent. aqueous.
- (b) Venetian turpentine (Michrome) 10 per cent. in absolute alcohol.

### Technique:

1. Stain the material in suitable aqueous stains.
2. Transfer to (a) and leave therein for several days in an open dish.
3. Wash with several changes of 95 per cent. alcohol.
4. Wash with two or three changes of absolute alcohol.
5. Transfer the material quickly into (b) in an open dish, and place the dish, with the contents, over soda lime in a dessicator for several days until the fluid becomes viscous, mount on slides.

## VETERINARY FINE CHEMICALS

At a meeting of the fine chemicals group of the Society of Chemical Industry held in London on November 14, DR. J. CARMICHAEL (May & Baker, Ltd.) read a paper on "Fine Chemicals in Veterinary Medicine." The speaker said that the forthcoming publication of the British Veterinary Codex would fill an important gap. The field was wide, as different species of animals reacted differently to a drug. In veterinary practice the economic factor had to be considered, and with farm animals cost of treatment had to be weighed against usefulness of the patient.

### Urgent Problems

The problem of the tsetse fly and trypanosomiasis in relation to the development of tropical Africa was urgent. The many species of trypanosomes and different types of animals affected made chemotherapy complicated, but trypanosomes could be divided into rough groups according to their reactions to chemicals. For example, most species of the Bruce-Evans group were susceptible to the ureas and, to a certain extent, to arsenicals. *T. congolense* and, to a lesser degree, *T. vivax*, were susceptible to the phenanthridinium compounds and quinoline derivatives. Great advances had been made in the treatment of coccidiosis in chickens (by the sulphonamides) and blackhead in turkeys (by 2-amino-5-nitrothiazole). Phenothiazine was by far the most widely used anthelmintic in veterinary practice. External parasites were dealt with effectively by means of cyclohexane hexachloride (BHC), dicophane (DDT) and Toxaphen (a chlorinated camphene).

MR. S. C. JOLLY (assistant editor of the Pharmaceutical Society's scientific publications) said that at present standards for veterinary drugs were to be found only in a 1950 addendum to the Danish Pharmacopœia. Of forty-seven monographs, less than a third would be classed as fine chemicals. Commercial grades of copper, ferrous and sodium sulphates, potassium carbonate, and sodium and calcium phosphates were included, while pentobarbitone, phenothiazine, cobalt chloride and magnesium chloride of pharmaceutical quality were described. Official recognition of veterinary medicine was confined to a few preparations, such as lotions and creams, in the French Pharmacopœia and in a section in the U.S. Dispensatory which gave a summary of the action and

uses of veterinary substances. The British Veterinary Codex would contain nearly 500 monographs. Approximately seventy were for vaccines, sera and related products and about 370 for substances with either British Pharmacopœia or British Pharmaceutical Codex standards. The remaining sixty monographs consisted of substances which had a purely veterinary use or of commercial grades of pharmaceutical drugs.

In reply to DR. A. G. FOSTER, DR. CARMICHAEL said he was not aware of any correlation of toxicity of phenothiazine with a change in its colour from yellow to dark green. He told DR. W. MITCHELL that no development of resistance to BHC or DDT of tsetse fly had been observed where they had been used against isolated areas of tsetse fly in South Africa.

## NEW BRITISH STANDARDS

**RUBBER ICE BAGS FOR HOSPITAL USE** (B.S. 1898; 1952, price 2s.): Provides for four types of ice bags: those hand-made from sheet rubber; hand-made from rubber with fabric reinforcement; rubber moulded; and dipped rubber latex.

**ROUND BUILT-UP TINS FOR PHOTOGRAPHIC SUPPLIES** (B.S. 1779, 1952, price 2s.): The different densities of many materials used by the photographic industry make it impracticable to specify precise dimensions and capacities for all the tins needed. Diameters are standardised for the normal range of tins.

**ONE-MARK GRADUATED FLASKS** (B.S. 1792, 1952, price 2s.): Specifies ten sizes of flask from 5-mil to 2,000-mil capacity. It gives full dimensions, includes a standard method for the determination of capacity, and lists two classes of tolerances for that. It specifies requirements for material, construction, stability and graduation, with alternative neck shapes for stoppers made of either ground glass or plastics.

**GRADUATED PIPETTES AND ONE-MARK CYLINDRICAL PIPETTE** (B.S. 700, 1952, price 5s. (revised specification)): It specifies three types of graduated pipette calibrated for, respectively: Delivery from zero mark to graduation marks (type 1); delivery down to jet (type 2); calibrated for content (type 3). Two types of one-mark cylindrical pipette are specified. (1) calibrated for delivery, (2) calibrated for content.

## TRADE REPORT

**Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.**

LONDON, DECEMBER 3  
COMPETITION from German exporters of a number of PHARMACEUTICAL and FINE CHEMICALS continues. Several pharmaceuticals have recently been landed in the United Kingdom at prices that must be well below their costs of production. EPHEDRINE is a notable example, and it is expected that the market for that commodity will be extremely competitive in the future. The only price changes noted during the week are those for CALAMINE and ZINC CARBONATE, which were reduced by sixpence-halfpenny per lb. All grades of ACETIC ACID were reduced on December 1—the glacial grades by £12 per ton and the 80 per cent. grades by £10.

The firmer tendency in IPECACUANHA at source noted last week was maintained, and considerable business has been done in spot supplies. Many holders have cleared their stocks and supplies remaining are now offering at about 2s. to 2s. 6d. per lb. above previous levels. SENNA LEAVES and PODS have been in steady demand. Business has been done in Cape ALOES for shipment, but offers of Curaçao from origin have been difficult to obtain. AGAR eased slightly. ERGOT has been offered on the spot at 51s. per lb. (down by one shilling) though shipment offers were almost on a parity. SPICES were in small demand, and even Zanzibar CLOVES were down by three-halfpence per lb. at origin.

ESSENTIAL OILS again provided a dull market. Chinese PEPPERMINT and ANISE on the spot were lowered, in line with cheaper shipment offers.

No change is to be made by the Ministry of Food in the prices of unrefined oils and fats and technical animal fats allocated to primary wholesalers and large trade users during the four-week period ending December 27, nor in those of refined oils and imported edible animal fats allocated during the period ending January 24, 1953.

### U.S. Drug and Chemical Report

NEW YORK. DECEMBER 2

LITTLE of importance has developed in the American chemical market during the past holiday-abbreviated week. QUICKSILVER was quoted at \$208.212, nominal, per flask, against \$205.210, nominal, previously. Lower per lb. are TOLU BALSAM at \$3.60 (down 40 cents); GUM ACACIA, amber sorts, at 13-3/4 cents (1 cent.); ERGOT at \$2.50 (15 cents); and SENEGA at \$2.15 (10 cents). In ESSENTIAL OILS lower per lb. are GINGER at \$14.50 (down 25 cents); Floridian and Californian ORANGE at 80 cents (10 cents). Bourbon GERANIUM

firmed up to \$12.50 per lb., an advance of \$1.50.

THE following prices are ruling in New York :  
Cents per lb.

Acetone	8.50-10.50
Camphor, synthetic	60.00
Glycerin, pure	39.50
Guaiacum resin	31.62-32.00
Hexamine	23.25
Magnesia, calcined	32.00-32.75
DDT	32.00-33.00
Sodium bromide	34.00-35.00
	Dollars per lb.
Iodine, resublimed	2.55-2.78
Menthol	5.20
Sulphanilamide	1.30-1.50
Theobromine	3.75
	Dollars per oz.
Emetine hydrochloride	35.00-42.85
Atropine	9.35-10.50
Nicotinamide	12.00-12.30 per kilo
Streptomycin	21 cents per gm.
Penicillin, procaine bulk 500 to 5,000 million unit lots	11.00-12.00 cents per 1 million units

### Pharmaceutical Chemicals

ACETANILIDE.—1-cwt. lots are 2s. 11d. per lb. for crystals and 3s. per lb. for powder.

ACETIC ACID.—B.P. Glacial is now £111 per ton.

AMIDOL.—In 14-lb. lots the price is 19s. per lb.; 7-lb., 19s. 6d.

AMMONIUM CARBONATE.—B.P. lump is £71 5s. per ton; POWDER, £74 5s. BICARBONATE is £47 15s. per ton, all delivered free United Kingdom in non - returnable packages.

AMPHETAMINE.—BASE is 130s. per kilo, and SULPHATE, 103s. d-AMPHETAMINE is from 640s. per kilo.

BARIUM SULPHATE.—1-cwt. lots of B.P. (x-ray) are 1s. 5d. per lb. and 5-cwt., 1s. 4d. per lb.

BENZAMINE.—B.P.C. LACTATE and HYDROCHLORIDE are 180s. per lb.

BORAX.—Prices for B.P. grade, for quantities of 1 ton and upwards are as follows :—Granular, £48 10s.; crystals, £51; powder, £52; extra-fine powder, £53 per ton. Prices of commercial range from £39 10s. to £44 per ton, as to type, and dehydrated borax is £59 10s. per ton in 140-lb. paper - lined hessian bags or £58 10s. in 1-cwt. paper bags; carriage paid in Great Britain. Surcharges for small quantities as for boric acid.

BORIC ACID.—Prices for B.P. grade in quantities of 1 ton and upwards are as

follows:—Granular, £81; crystal, £88; powder, £85 10s.; extra-fine powder, £87 10s. per ton. In 1-cwt. bags: carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5-cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 3s.

**CALAMINE.**—Lower. Rates (per lb.) are as follows:—1-cwt. lots, 1s. 11d.; 10-cwt., 1s. 8d.

**EPHEDRINE.**—In 100-oz. lots ALKALOID is 12s. per oz.; HYDROCHLORIDE, 4s. 7d.; SULPHATE, 8s. 6d.

**HYPOPHOSPHITES.**—Prices per lb. are unchanged as follows:—

SALT	7 lb.	28 lb.	1 cwt.
	s. d.	s. d.	s. d.
AMMONIUM ...	12 10	12 5	12 0
BARIUM ...	7 10	7 5	7 0
CALCIUM ...	5 11	5 6	5 1
IRON ...	12 1	11 8	11 3
MAGNESIUM ...	9 4	8 11	8 6
MANGANESE ...	10 11	10 4	9 6
POTASSIUM ...	7 11	7 6	7 1
SODIUM ...	6 7	6 2	5 9

**IODIDES.**—Rates (per lb.) for POTASSIUM are as follows:—1-cwt., 18s. 1d.; 28-lb., 18s. 7d.; 7-lb., 22s. 2d. SODIUM IODIDE is: 1-cwt., 19s. 7d.; 28-lb., 20s. 1d.; 7-lb., 23s. 10d.

**IODINE PREPARATIONS.**—Rates (per lb.) are as follows:—RESUBLIMED IODINE, 1-cwt., 21s. 3d.; 28-lb., 21s. 9d.; 7-lb., 25s. 9d. IODOFORM POWDER, 1-cwt., 25s. 4d.; 28-lb., 25s. 10d.; 7-lb., 30s. 6d. (CRYSTAL, 2s. 8d. per lb. more).

**ISOPRENALEINE SULPHATE.**—B.P.C. is 2s. 4d. per gm. for 100-gm. lots.

**KAOLIN.**—In 1-cwt. bags, LIGHT is quoted at 84s. per cwt.

**LITHIUM SALTS.**—Current rates for 1-cwt. lots are as follows:—CARBONATE, 10s. 6d. per lb.; CHLORIDE (commercial), 10s.; HYDROXIDE, 10s.; CITRATE, 8s. 6d.; SULPHATE, 7s. 10d.; SALICYLATE, 9s. 6d.

**MANDELIC ACID.**—1-cwt. lots in 28-lb. containers are 10s. 9d. per lb. The CALCIUM SALT is also 10s. 9d. while SODIUM is 11s. 3d. per lb., for 1-cwt. lots.

**METHYL SALICYLATE.**—In 5-cwt. lots, price is 3s. 2½d. per lb.; 1 cwt., 3s. 3d.; 56-lb., 3s. 3½d.

**PAPAVERINE.**—Synthetic HYDROCHLORIDE is in the region of £46 per kilo.

**PHENACETIN.**—In 5-cwt. lots makers' price is now 7s. 2d. per lb., 1-cwt., 7s. 3d.

**PHENOL.**—Basic price for B.P. in drums is 1s. 6d. per lb.

**PHENOLPHTHALEIN.**—Rate for 1-cwt. lots is 11s. 10d. per lb.

**PHOSPHORIC ACID.**—B.P. is 1s. 5½d. per lb. in 1-2-carboy lots. HYPOPHOSPHOROUS, B.P.C., in winchesters, is from 5s. 9d. to 6s. 10½d. per lb., as to quantity.

**POTASSIUM HYDROXIDE.**—B.P. sticks are from 6s. 6d. per lb.

**PROCAINE HYDROCHLORIDE.**—1-cwt. lots are 32s. 6d. per lb.

**PYROGALLIC ACID.**—Pure crystals are 18s. per lb. in 1-cwt. lots.

**STRYCHNINE.**—Current rates per oz. are given in the following table:—

SALT	Under	25 oz.-	100 oz.-	500 oz.
	25 oz. s. d.	99 oz. s. d.	499 oz. s. d.	and over s. d.
ALKALOID, B.P.C.	7 10	7 8	7 6½	7 5
BISULPHATE ...	6 8	6 6	6 4½	6 3
HYDROCHLORIDE, B.P. ...	7 5	7 3	7 1½	7 0
NITRATE, B.P.C. ....	7 5	7 3	7 1½	7 0
PHOSPHATE ...	8 6	8 4	8 2½	8 1
SULPHATE, B.P.C.	6 11	6 9	6 7½	6 6

Special discounts for large buyers.

**ZINC CARBONATE.**—Rates for B.P.C. quality are:—1-cwt. lots, 1s. 10½d. per lb., 28-lb., 2s. 2½d.

## Crude Drugs

**ACONITE.**—Spanish *napellus* is 3s. 6d. per lb., duty paid, ex wharf.

**AGAR.**—Kobé No. 1 on the spot is now about 18s. per lb.

**ANTIMONY.**—English, 99.6 per cent., £237 10s.; 99 per cent., £225 per ton.

**ALOES.**—Prime Cape is unchanged forward at about 157s. 6d. per cwt., c.i.f.: spot is offered at 175s. Curacao is 320s. per cwt., c.i.f., and 350s. spot.

**ASAFOETIDA.**—Persian block is £18 per cwt., duty paid.

**BALSAMS.**—*Canada*: Spot is now about 26s. per lb. for clear bright, paper-filtered. *Copaiba*: Para is offered on the spot at 12s. 6d. per lb., duty paid. Peru is 12s. 3d. per lb., duty paid, and 10s. 6d., c.i.f. *Tolu* (genuine as imported) on the spot is 21s. 6d. per lb., in original cases and for shipment, 19s. c.i.f.

**BELLADONNA.**—**ROOT.**—A parcel testing 0.44 per cent. is offered at 2s. 9d. per lb. on the spot, duty paid; **LEAVES** are from 3s. per lb., as to test.

**BENZOIN.**—No. 1 Sumatra block on the spot is quoted at from £25 10s. per cwt. and for shipment, £23 10s., c.i.f. Siam almonds are from 25s. to 32s. 6d. per lb., spot, as to size.

**BISMUTH.**—In minimum 5-cwt. lots METAL is 17s. per lb.

**CAMPHOR.**—Chinese (B.P.) powder on the spot is 3s. 6d. per lb., in bond; ¼-oz. tablets are quoted at 5s. 9d. per lb., duty paid; 2½ lb. slabs, 4s. 9d. per lb., duty paid.

**CARDAMOMS.**—Aleppy greens for shipment are 11s. per lb., c.i.f., and spot, 16s.

**CASCARA SAGRADA.**—American bark, 1951 peel, is 325s. per cwt., duty paid. New

crop, for shipment, is 305s. to 310s., c.i.f.

**CASSIA BARK.** — Whole on the spot is 107s. 6d. per cwt. in bond; forward, 85s., c.i.f.

**CHERRY BARK.** — Thin cut natural is from 1s. 10d. per lb., duty paid, and rossed, 2s. 2d. on the spot.

**CHILLIES.** — Quiet. Sierra Leone on the spot are 160s. per cwt.; for shipment, 135s., c.i.f., nominal; Mombasa, 195s., c.i.f., and 205s., spot.

**CLOVES.** — Offers of Zanzibar on the spot are 12s. per lb., and 10s. 9d., c.i.f., for December shipment.

**ERGOT.** — Offers of Portuguese are about 14s. 6d. per lb., c.i.f., November shipment. Spot supplies are 16s. per lb.

**GAMBOGE.** — Good average Siam pipe is £40 per cwt., spot.

**GENTIAN.** — French natural on spot is 110s. per cwt.

**GINGER.** — African on the spot is 97s. 6d. per cwt., and forward at 90s. c.i.f. Spot quotations for Jamaican are about 122s. 6d. for No. 3.

**HENNA.** — Indian green leaves are about 72s. 6d. per cwt. on the spot, and 70s. c.i.f., forward. Egyptian is 100s., spot.

**IPECACUANHA.** — Forward offers are firm. Nicaraguan and Colombian for shipment are 41s. 6d. per lb., c.i.f. Spot quotations are: Nicaraguan, 44s., Colombian, 41s.

**KARAYA.** — No. 1 gum on the spot is about 220s. per cwt.; No. 2, 165s.; No. 1, for shipment is 185s., c.i.f.

**KOLA NUTS.** — African halves are available on the spot at 4 $\frac{3}{4}$ d. per lb., 3 $\frac{3}{4}$ d. c.i.f., for shipment.

**LIQUORICE.** — Natural: Anatolian whole root on spot in London is quoted at 55s. per cwt.; Syrian is from 40s. to 42s. 6d. Block juice quotations are from 180s. upwards, according to holder, duty paid. Turkish stick is 240s. per cwt., duty paid; Italian stick, 475s. per cwt., duty paid.

**LOBELLIA.** — Herb is 3s. 6d. per lb., spot.

**MACE.** — West Indian pale blade is 8s. per lb., for shipment, 6s. 10d., c.i.f.

**MASTIC.** — Quotations for tears (No. 2) are from 11s. 9d. per lb., spot.

**MENTHOL.** — Brazilian is 44s. per lb. Chinese, 58s. 6d., both duty paid on the spot. Shipment: Brazilian, 41s.; Chinese, 54s., both c.i.f.

**MERCURY.** — Nominal spot value is £71 per flask, ex warehouse.

**PAPAIN.** — East African, grade 1 is 40s. per lb.; Ceylon white, 42s. 6d. and sundried, 36s., on the spot.

**PEPPER.** — Quiet. White Sarawak on the spot is now 10s. 9d. per lb., ex wharf, and 10s. 4 $\frac{1}{2}$ d., c.i.f., December shipment. Black

Malabar, 1,200s. per cwt., spot, and 1,075s., c.i.f., December shipment. Black Sarawak is 9s. 7 $\frac{1}{2}$ d. per lb., on the spot.

**PODOPHYLLUM.** — *Emodi* root on the spot is 200s. per cwt. nominal. *Peltatum*, 336s.

**QUASSIA.** — Chips on the spot are available at 34s. 6d. per cwt.; forward offers are 30s. 6d., c.i.f.

**QUILLAIA.** — Forward rates for whole bark are £95 per ton, c.i.f. Spot, £125.

**SEEDS.** — **ANISE.** — Unchanged. Turkish, 147s. 6d. per cwt., duty paid, and 135s., in bond. Cyprus still offered at 150s., landed.

**CARAWAY.** — Dutch are still offering at 92s. 6d., duty paid, London.

**CELERY.** — Indian are quiet at 1s. 10 $\frac{1}{2}$ d. per lb., sellers. French are nominal at 2s. per lb., duty paid.

**CORIANDER.** — Market weak. Spot, Morocco old-crop are being offered as low as 32s. 6d. per cwt., duty paid. New-crop are quoted at 37s. 6d., duty paid, and 35s. in bond; English are now quoted at 65s.

Shipment, Morocco are quoted at 31s., c.i.f. No business reported at this figure.

**CUMIN.** — Very little interest shown during the past week. Spot, Cyprus, 155s. per cwt.; Indian, 185s.; Morocco, 170s., duty paid. Shipment, Cyprus, 125s.; Indian, 160s.; Morocco, 155s., all c.i.f. basis London.

**DILL.** — Indian is quiet at 80s. per cwt., spot London.

**FENNEL.** — Spot: Indian, 205s. per cwt.; mid-European, 185s., duty paid; French, 195s., duty paid.

**FENUGREEK.** — Spot business has been done at 38s., duty paid. Shipment, 34s. 6d. now quoted c.i.f., London. Italy is reported to have bought.

**MUSTARD.** — English, 70s. to 90s. per cwt. according to quality.

**SENEGA.** — Spot supplies are 14s. 6d. per lb.

**SENNA.** — *Tinnevelly* LEAVES: Prime No. 1 on the spot are 1s. 4d. per lb.; Prime No. 2, 1s. 2d.; Prime No. 3, 11d.; f.a.q., 10d.; PODS, f.a.q., from 1s. 2d.; hand-picked (December delivery), 2s. 6d. to 3s., landed. *Alexandria* PODS, manufacturing, 1s. 10d.; hand-picked, 3s. 6d. to 6s.

**SHELLAC.** — Lower. Spot quotations are:—F.O.T.N., pure, 167s. 6d.: F.O. standard No. 1, 182s. 6d.; fine orange, 215s. to 260s. per cwt., ex-London warehouse.

**WAXES.** — **BEES'.** — Dar-es-Salaam on the spot is 425s. per cwt.; January-February, 1953, shipment, 370s., c.i.f. Sudanese for shipment, 370s., c.i.f.

**CANDELILLA.** — Spot is 645s. per cwt. **CARNAUBA.** — Prime yellow, spot, 1,220s. per cwt.; December shipment, 1,140s.; Fatty grey, spot, 840s. per cwt., afloat, 835s., c.i.f.

**MONTAN.** — Rebeck crude on the spot is 135s. per cwt. **OURICURI.** — Spot, 0.5 per cent. impurities, 690s. per cwt. **SPERMACETI.** — Case lots are 2s. per lb.

## Essential and Expressed Oils

**ALMOND.**—B.P. is from 6s. per lb.

**AMBER.**—Rectified on the spot is quoted at from 1s. 6d. per lb.

**ANISE.**—Spot supplies are offered at from 8s. per lb. for original drums, and for shipment, 7s., c.i.f.

**BERGAMOT.**—Nominal spot value is from 100s. to 105s. per lb.

**BIRCH TAR.**—Rectified is about 14s. per lb. in 1-cwt. lots.

**CADE.**—Supplies of Spanish are from 2s. per lb., ex warehouse, London.

**CAMPHOR, WHITE.**—Chinese is 3s. 9d. per lb., on the spot.

**CANANGA.**—Supplies to come forward are quoted at from 60s. per lb., c.i.f. Java is available on the spot at 72s. 6d. per lb.

**CARAWAY.**—English-distilled is offered at 45s.; imported oils are from 25s. per lb. for spot.

**CARDAMOM.**—English-distilled is from 425s. per lb. for spot material, and imported, 360s. per lb.

**CASSIA.**—Spot supplies are offered from 19s. 6d. per lb.

**CHENOPODIUM.**—1-cwt. lots are 75s. per lb.

**CINNAMON.**—B.P. oil on the spot is quoted at from 65s. to 70s. per lb. English bark oil is offered at 20s. per oz. Ceylon leaf is about 10s. 9d. per lb.

**CITRONELLA.**—Spot prices for original drums are: Ceylon, 3s. 6d. per lb.; Formosa, 3s. 8d., in bond; Java, 4s. in bond. Forward: Ceylon, 3s. 4d.; Formosa, 3s. 5½d., and Java, 3s. 11d., all c.i.f., December shipment.

**CLOVE.**—English-distilled oil is 50s. per lb., nominal. Madagascar leaf on the spot is 12s. 9d. per lb., duty paid, and 10s. 9d. c.i.f. for shipment; Redistilled, from 17s. 6d. per lb., spot.

**CORIANDER.**—Russian-seed oil is 160s. per lb.

**CUBEB.**—English-distilled is offered at from 50s. to 55s. per lb. Imported is quoted at 60s. per lb.

**EUCALYPTUS.**—Drum lots of 70 to 75 per cent. eucalyptol on the spot are 5s. 3d. per lb., and 80 to 85 per cent., 5s. 6d.

**JUNIPER BERRY.**—Imported oils are offered at 17s. 6d. per lb., duty paid. English-distilled is offered at 75s. to 95s. per lb., as to seller and grade.

**LAVENDER.**—French, 40-42 per cent. linalol on the spot is from 38s. per lb.

**LEMON.**—B.P. (4 per cent. citral) on the spot is from 40s. to 45s., according to quality and holder.

**NUTMEG.**—English-distilled oil is about 33s. per lb. Imported oil (B.P.) is offered

at 25s. per lb., duty paid for drum lots.

**PALMAROSA.**—East Indian is 47s. 6d. per lb., on the spot.

**PATCHOULI.**—Seychelles on the spot is offered at 44s. 6d. per lb. and Penang at 50s. Forward offers of Penang at 46s. c.i.f.

**PEPPERMINT.**—*Arvensis*, Chinese oil is quoted on the spot at from 35s. 6d. per lb. Brazilian is steady at 16s. Forward: Chinese, 31s.; Brazilian, 15s., both c.i.f., December shipment. Italian "Mitcham" type oil, 52s. to 54s. per lb., as to quality, for original drums, delivered. Forward, 51s., c.i.f.

**PETITGRAIN.**—Paraguay on the spot is from 18s. 6d. per lb.

**PINE.**—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 9s.; Siberian (*abietis*), 13s.

**ROSEMARY.**—Spanish oil on the spot is from 5s. per lb., duty paid.

**SASSAFRAS.**—Brazilian natural is offering at 5s. 6d. per lb., duty paid, and 4s. 9d., c.i.f.

**SPEARMINT.**—Offers are from 62s. 6d. to 70s. per lb., as to holder.

## WORLD TRADE

**Iraq Lowers Duties.**—The new Iraqi Government has issued decrees reducing both import and export duties.

**Guatemala Surtax.**—A 6 per cent. surtax on all imports and exports was effected by Guatemala from November 30.

**Pakistan Abolishes Open Licence.**—The Pakistan Government has announced the abolition of the open general licence system.

**Chile: New Financial Measures.**—Measures outlined in the Chilean budget 1953 provide for the virtual elimination of unessential imports; for state control over the import and distribution of raw materials and essential goods; and for a single exchange rate.

**West German Pharmaceuticals Output.**—West German production of pharmaceuticals in the first half of 1952 rose to 424·4 million marks from 357 millions in the comparable period of 1951. Production of pharmaceutical specialities continued to rise to 122 million marks in the third quarter and accounted for about 50 per cent. of total pharmaceutical production.—The exports of photographic chemical goods, including plates, films, papers and chemicals, were valued at 15,650,000 marks in the first eight months of this year against 17,600,000 marks in the same period in 1951.

## GUIDE TO NEW MEDICAMENTS

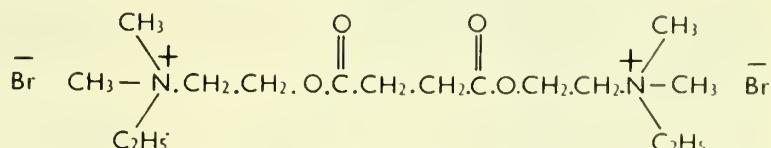
Information about new proprietary medicaments to be supplied principally on prescription. Editorial recommendation is not implied. Reprints obtainable on application.

### SUXETHONIUM BROMIDE

BRAND NAME\*: BREVIDIL E.

MANUFACTURER: Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, Essex.

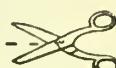
INDICATIONS: Brief muscle relaxation (especially in electro - convulsion therapy).



DOSAGE: 1.0 to 1.25 mgm.

cation per kilo body-weight. The single dose for an average adult is 60 to 100 mgm. cation, by intravenous injection. FIRST ISSUED: September 1952.

How SUPPLIED: Powder: Boxes of ten ampoules, each containing 150 mgm. (equivalent to 100 mgm. cation) and multi-dose containers each holding 750 mgm.



### ESTOMYCIN

MANUFACTURER: Glaxo Laboratories, Ltd., Greenford, Middlesex.

DESCRIPTION: A mixture of penethamate hydriodide (Estopen) and streptomycin sulphate in the ratio of penethamate hydriodide, 500,000 units; and streptomycin sulphate equivalent to streptomycin base 1 gm. The dry mixture contains 5 per cent. of buffering and suspending agents. (Quantities stated form an adult dose).

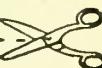
INDICATIONS: Mixed respiratory infections, pulmonary tuberculosis complicated by secondary infections, and mixed infections of the urinary tract.

DOSAGE: Adult dose (see above) prepared as a suspension once or, if necessary, twice daily. The preparation is administered intramuscularly only.

#### PREPARATION OF SUSPENSION:

Invert vials (see below). Tap powder down to rubber cap. Inject sterile distilled water (3 c.c. for the adult-dose vial and 1 c.c. for the infant-dose vial); withdraw needle and shake gently to dissolve the streptomycin sulphate. The suspension should not be left in the syringe.

How SUPPLIED: Adult single-dose vials in boxes of ten. Infant-dose vials (containing penethamate hydriodide, 100,000 units; and streptomycin sulphate, equivalent to streptomycin base 0.2 gm.) in boxes of ten. FIRST ISSUED: September 1952.



### EFOCAINE

MANUFACTURER: The Crookes Laboratories, Ltd., Park Royal, London, N.W.10.

DESCRIPTION AND FORMULA: A dépôt solution for prolonged anaesthesia containing: Procaine, 1 per cent.; procaine hydrochloride, 0.25 per cent.; and butyl aminobenzoate, 5 per cent.; in a solvent composed of polyethylene glycol 300, 2 per cent.; propylene glycol, 78 per cent., and water (with sodium metabisulphite, 0.1 per cent., and phenyl-mercuric-borate, 1:25,000).

INDICATIONS: Prevention of post-operative pain in proctology, musculoskeletal disorders, trauma; abdominal, chest, and minor surgery; obstetrics, pruritis, etc.

ACTION: The active constituents of the solution, which are insoluble in water, are deposited in the tissues as a crystalline dépôt.

DOSAGE: According to the length of anaesthesia required. It is administered deep and fanwise into the tissues by a special technique. It is not for spinal or intravenous use.

How SUPPLIED: In vial of 15 mils. FIRST ISSUED: November 1952.

REFERENCES: Deaton and Bradshaw, "American Surgery," 1952, 18, 539; Gross and Shafel, "New York State Journal of Medicine," 1952, 52, 1413; Iason and Shafel, "American Journal of Surgery," 1952, 83, 549; Raicus, "Medical Times," 1952, 80, 156.



Cross-reference for card index: **BREVIDIL E**, see suxethonium bromide.

## TRADE MARKS

**From the "Trade Marks Journal," November 19**

**For all goods (5)**

MOSKITIN, 708,182, by Paul V. Kutiak & Co., Ltd., London, S.W.14. SIMPLASTIN, B709,817, by Chilcott Laboratories, Ltd., London, W.4. FORMULAC, 710,449, by Hough, Hoseason & Co., Ltd., Manchester. NOVESINE, 710,519, by Dr. A. Wander, S.A., Berne, Switzerland. MIDARINE, 711,394, by the Wellcome Foundation, Ltd., London, N.W.1.

**For laxatives (5)**

VALEVAN, 708,293, by Evans Medical Supplies, Ltd., Liverpool.

**For medicinal syrups (5)**

COMPYNE, 709,016, by Raimes, Clark & Co., Ltd., Edinburgh.

**For pharmaceutical preparations (5)**

EMBELIX, 708,343, by May & Baker, Ltd., Dagenham. TESSALON, 709,967, by Ciba, Ltd., Basle, Switzerland. T.P.P.-ORGANON, 711,139, by Organon Laboratories, Ltd., London, W.C.2. CALTEN, 711,170, by Bayer Products, Ltd., London, W.C.2. CALTEN, 711,171, by Winthrop Products, Ltd., London, S.W.1.

**For germicidal, antiseptic and disinfectant preparations (5)**

Hand holding torch, 709,077, by Lifeguard Products, Ltd., London, E.14.

**For disinfectants containing pine extracts (5)**

KEMPINE, B709,367, by the County Chemical Co., Ltd., Birmingham.

**For antibacterial preparations (5)**

PENFONYL, PENFONYLIN, TERFONYL, 709,450-54, by E. R. Squibb & Sons, London, W.1.

**For anaesthetics (5)**

PASACAIN, 709,677, by Herts Pharmaceuticals, Ltd., Welwyn Garden City.

**For medicinal saline preparations (5)**

SAL DE FRUTA-ENO, 709,819, by J. C. Eno, Ltd., London, S.W.1.

**For preparations of vitamins for addition to animal feeding stuffs (5)**

COOPERDEE, B710,300, by Cooper, McDougall & Robertson, Ltd., Berkhamsted.

**For chemical preparations for sterilising dairy machinery and apparatus (5)**

STERAC, 710,319, by Alfa-Laval Co., Ltd., Brentford.

**For veterinary preparations for poultry (5)**

TIPONETS, 710,486, by B. C. Tipper & Son, Ltd., Birmingham.

**For aluminium foil and closures made therefrom (6)**

CENTERPRINT, 709,671, by Anderson & Bruun (England), Ltd., Slough.

**For thermometers (9)**

MINNITHERM, B709,267, by Max Gate, Ltd., Birmingham.

**From the "Trade Marks Journal," November 26**

**For organic fertilisers (1)**

MOL, B705,070, by Midland Organics, Ltd., Birmingham.

## TRADE MARKS

*For sensitised films, plates and paper for use in colour photography (1)*

PAKOLOR, 706,958, by Associated British-Pathe Ltd., London, W.1.

*For wetting and emulsifying agents (1)*

NANSA, 709,930, by Marchon Products, Ltd., London, W.C.2.

*For industrial chemicals (1)*

POROFOR, 709,836, by Farbenfabriken Bayer Leverkusen, Germany. REPLEX, 711,505, by the Geigy Co., Ltd., Manchester.

*For soaps for domestic and toilet purposes (3)*

TAKE ME, B706,108, by Gorney & Son, Manchester.

*For detergents (3)*

NANSA, 709,931, by Marchon Products, Ltd., London, W.C.2.

*For non-medicated toilet preparations (3)*

CORONATA, STOLEN HEAVEN, 710,052-55 by Norman Hartnell, Ltd., London, W.1. CEL AVITA, 711,383, by Maria Antoinette Louis Bernays, Ltd., London, W.1.

*For anti-virus vaccine filtrates (5)*

BIOFILT, 705,837, by Arthur Frederick Harris London, S.E.25.

*For tablets for human use in deodorising the breath (5)*

NODORO, 707,025, by the London & Colonial Export Co., Ltd., London, W.1.

*For sanitary belts (5)*

MOLLIBELT, 710,025, by J. M. Mollison Co., Ltd., Milnrow.

*For medicinal herbal preparations (5)*

HEALTHFARM, B710,480, by R. Brooks & Co London, W.C.2.

*For insecticides and fungicides (5)*

MYRTYL, 711,549, by the Murphy Chemical Co., Ltd., Wheathampstead, Herts.

## LOCAL OFFICERS

(Pharmaceutical Society unless otherwise stated)

**Torquay Branch.** — Chairman, Mr. W. F. Byatt-Smith; Vice-chairman and Secretary, Miss Evelyn G. Maxey.

**Sheffield Branch.** — Chairman, Mr. J. F. Richardson; Vice-chairman, Mr. G. C. Madeley.

**Walthamstow Association.** — Chairman, Mr. W. H. Gooch; Vice-chairman, Mr. S. R. Smith; Secretary, Mr. T. W. Hill, 230 High Road, Loughton, Essex.

**Walthamstow N.P.U. Branch.** — Chairman, Mr. S. R. Smith; Vice-chairman, Mr. W. H. Gooch; Secretary, Mr. H. I. Crossley, 61 Beulah Road, Walthamstow, London, E.17.

**Preston Branch.** — Chairman, Mr. C. Orrell; Vice-chairman, Mr. L. Littlewood; Secretary, Mr. J. Brooks, 119 Waterlo Road, Ashton, Preston, Lancs; Treasurer, Mr. I. Anderton.

**Cussons**

**IMPERIAL  
LEATHER  
Toilet Soap**

**CHRISTMAS  
PACK!**



This widely advertised toilet soap is now available in a richly decorated three tablet box, as illustrated — at no extra charge.

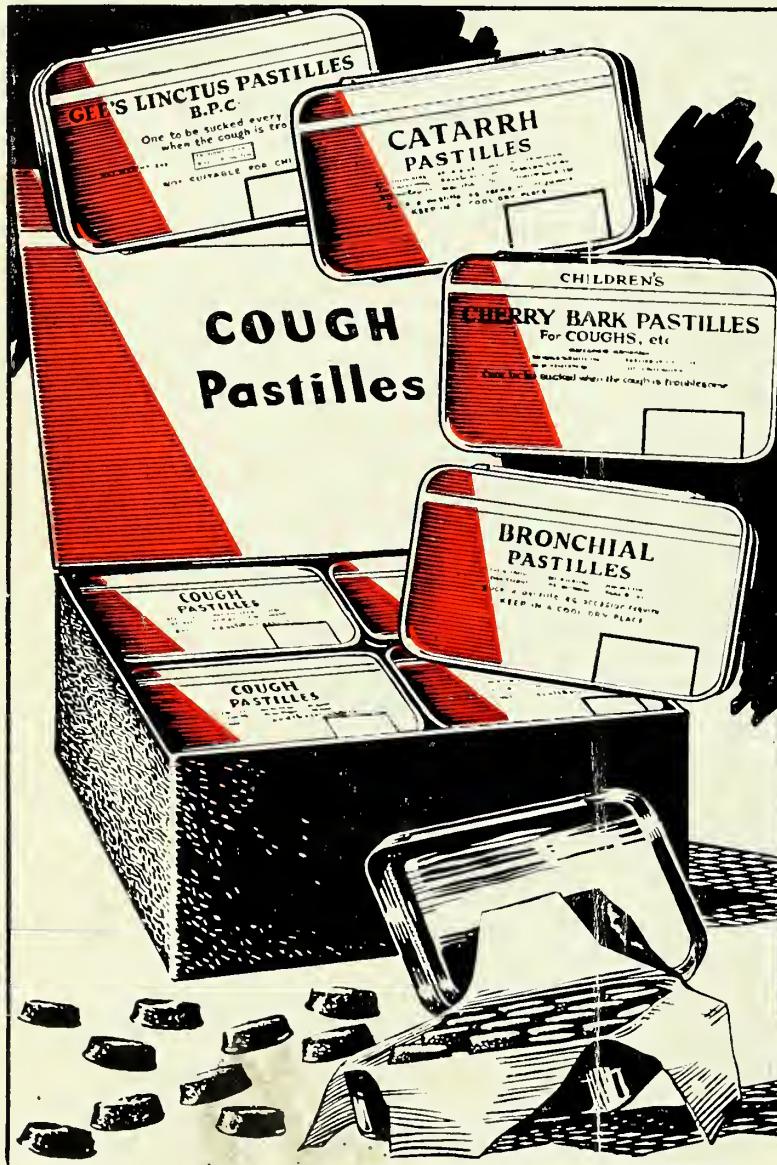
**CUSSONS SONS & CO LTD**

**84 BROOK STREET, GROSVENOR SQUARE, LONDON W1**



# Pastilles ...

**ALL GOOD  
WINTER  
SELLERS!**



2 oz. TINS WITH  
YOUR OWN NAME  
AND ADDRESS

•  
SHOW OUTERS  
OF 1 DOZEN

•  
SHOWCARDS  
AVAILABLE

● Bronchial .. .. ..	(a) 9 - per doz.
● Catarrh .. .. ..	(a) 9 - " "
● Children's Cherry Bark .. .. ..	(a) 9 6 " "
● Cough .. .. ..	(a) 9/- " "
★ Gee's Linctus B.P.C. .. .. ..	(a) 10/- " "
● Glycerin and Thymol .. .. ..	(a) 9/- " "
★ Menthol and Eucalyptol B.P.C. .. .. ..	(a) 9/- " "

● Plus 33½% P. TAX

★ TAX FREE

**ARTHUR H. COX & CO. LTD. EST 1839. BRIGHTON**